GIANT DIRECTORY ISSUE

PHOTOGRAPHY

MAY, 1953

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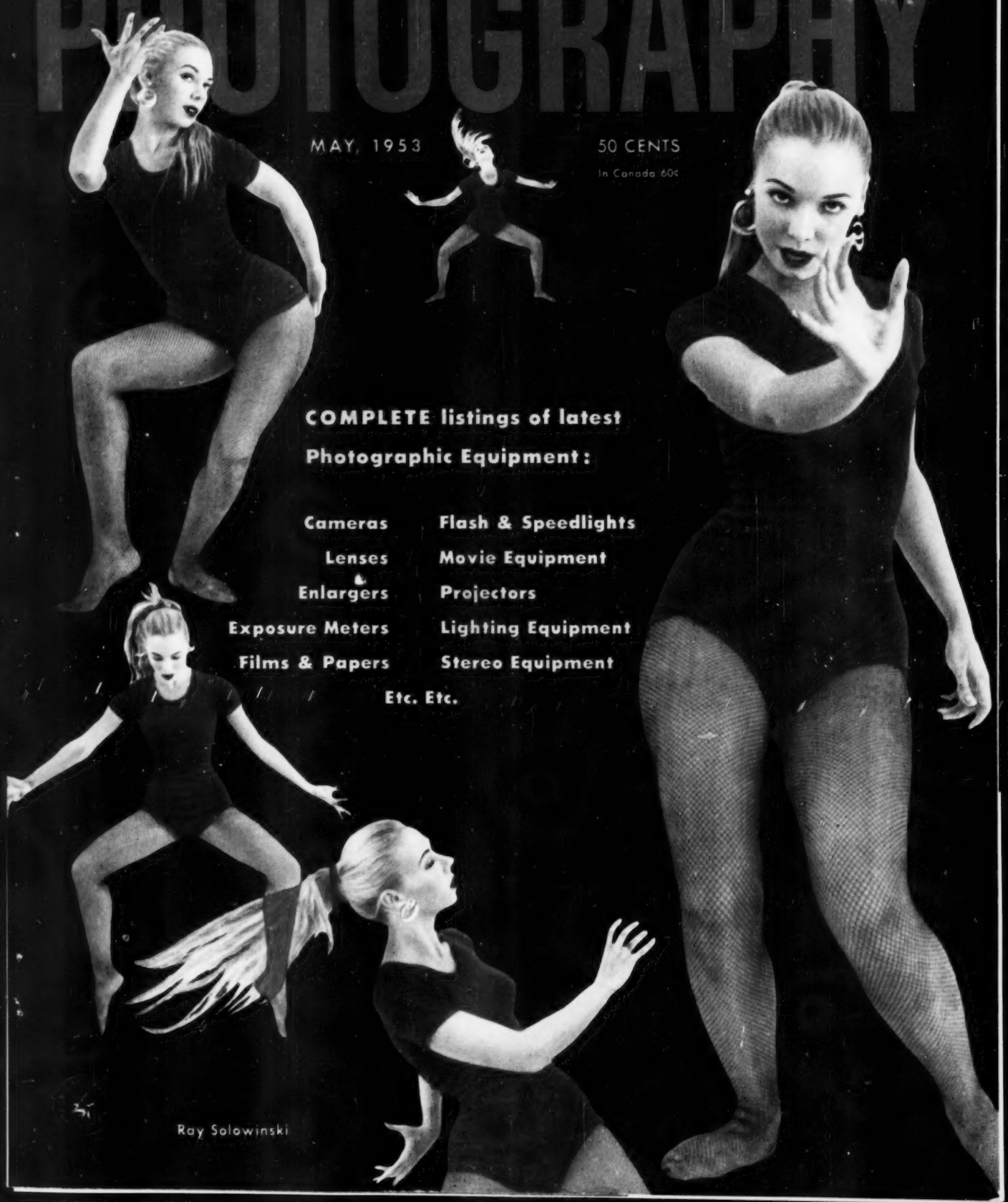

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Ray Solowinski

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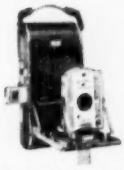

Polaroid Model 95

MAY, 1953 VOLUME 32, NUMBER 5

PHOTOGRAPHY®

Ray Solowinski, New York professional fashion photographer, was seeking a change from his usual assignments when he made these shots of dancer Mallia Phillips in his studio. To get a soft, natural lighting effect, he bounced two 1000-watt electronic flash units, one from each of two walls, at 1/100 second with an aperture of f/8. His camera was an Auto Rolleiflex equipped with a 75-mm, f/3.5 Zeiss Tessar lens. He photographed through a Kodak CC 05Y (pale yellow) filter on Ektachrome film.

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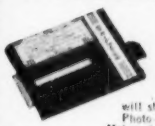

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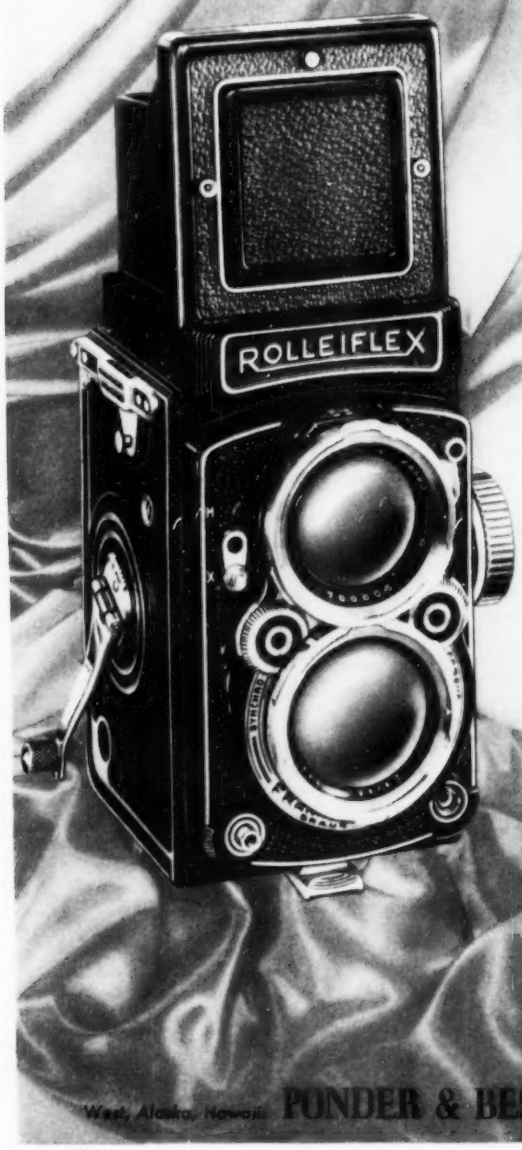

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For Limited Time Only! 12 rolls — $5.75
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letters to the editor

The Editor's Column

Bruce Downes' column, *Point of View*, returns to the lists a much-needed comrade-in-arms at a time when an informed point of view is as much a rarity and as much needed as in the days of his earlier column, *Let's Talk Photography*, which gave such valiant service in the cause of honesty and plain common sense in photography. However, although generally in agreement with his main premise, my own point of view takes exception to his reference to "the continuing struggle to overcome photography's inherent limitations," which by implication, though obviously not so intended, gives license to the manipulators and the contrivers who degrade the pure photographic image under the banner of salonism and pseudo self-expression. I believe it was Edward Steichen who said that we have yet to exhaust the possibilities of even the humblest box camera.

Jacob Deschin
Camera Editor
The New York Times
New York, N. Y.

"Small Manufacturer"

I was very interested in the article which appeared in the February issue of PHOTOGRAPHY on "slave" lights. I would like to call your attention to Fantom Flash, which has been on the market since 1947. Although it has never been extensively advertised because of the limited market, it has gained widespread acceptance on the Pacific Coast. We are one of the "small manufacturers" mentioned in the Mohler story.

R. O. Ritchie
Associated Designers
San Gabriel, Calif.

Cover Lover

Congratulations on your March cover, which was certainly an outstanding example of experimental color photography and, as far as I am concerned, one of the best covers ever used on any photographic magazine.

Louis B. Courtot
Euclid, Ohio

In Defense of "Realism"

I'm moved to defend the "purely realistic" photographs which placed in your latest contest and which drew a howl of protest from the self-styled "art" master who seems to think "press stuff" is plumb ooh-so-vulgah. . . . If the artistic temperaments who spook up the field of photography think I'm just blowing smoke through their curly locks into their ears, let them come over and take a whack at some real hot-to-trot "press stuff." They may find that war, or news, or "harsh newsy" photography is an art and then some. . . . You can take any subject you wish—still life, surrealism, advanced surrealism, ultimate idiocy, nudes, semi-

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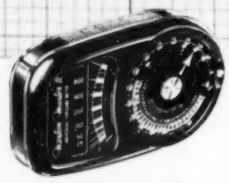
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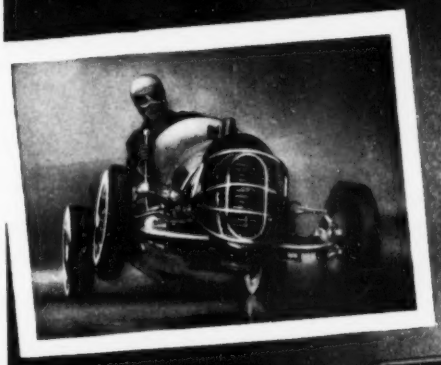

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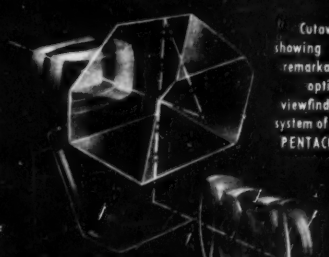

Cutaway showing the remarkable optical viewfinding system of the PENTACON.

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w/F2.0, 58mm Zeiss Biotar T-coated lens with preset diaphragm	359.50
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F2.8, 85mm Steinheil Culminar Telephoto	68.00
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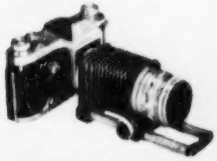

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nudes, drawn and quartered nudes, dissected nudes, nudes-on-the-half-easel—but you'll never be able to make a photograph that beats the appeal, significance, depth, and artistry of projected, bona-fide human emotion, captured in the raw. That is what often comprises the subject matter of "press stuff"—provided the photographer can capture it. That is a darn sight closer to art than any pseudo-art photographer can get. . . .

Frank D. Praytor
Pacific Stars and Stripes
APO, San Francisco, Calif.

• *Praytor won first prize in the color division of* PHOTOGRAPHY'S *1952 Picture Contest.*—ED.

Anti-Anti-Vivisection

I have just finished reading the *Letters* column in your March issue, and I am thoroughly disgusted after reading the opinions expressed by the anti-vivisectionists. . . . How can one be so ignorant as to think that the publication of pictures of the dissection of a frog will make our young impressionable high-school students knife-wielding maniacs? . . . If this gentleman has hallucinations when using his camera, he should either see a psychiatrist or try cutting out paper dolls as a hobby.

Myron Miller
New York, N. Y.

I bet Brown and Kraus haven't offered to allow themselves to be experimented on to determine if there is a cure for this or that disease. It is much better to experiment on an animal and have it die than to have a human die. . . . I am 21 years old. I have to go out and fight a war for people like Kraus so they can sit in Yonkers and worry about dogs. . . .

Martin Dowling
Butte, Mont.

As long as Mr. Kraus feels that way about photography perhaps the best thing for him to do is give his cameras away and shut himself up in a windowless room, because there are a great many things in everyday life that are far more gruesome than either the pictures of the bullfight or those of the frog.

Carl R. Martin
Elyria, Ohio

Do they think that scientists are trying to lick cancer by doing equations on blackboards? Animals are playing a great part in helping to find a cure for this dread disease.

Henry Field
Barre, Vt.

Honest horror hurts no one! Pain is a part of the Divine Plan for the material Universe; we can't get away from it. Why not face it, and photograph it, so we know what the score in ultimate suffering really does to us?

Charles Sinclair
Toronto, Ont.

• *Within a few days after the appearance of the anti-vivisection letters, we received an unusually heavy response from readers. Space permits printing excerpts from only a few of the letters. Without exception, they expressed approval of vivisection and of our use of the frog and bullfight pictures.*—ED.

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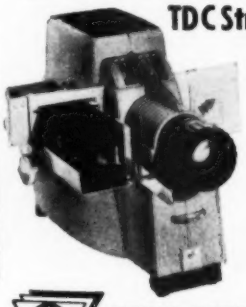

Blower-cooled, 500-watt illumination, coated 5" f/3.5 *anastigmat* lens. Complete with SELECTRON Semimatic 2" x 2" slide changer.

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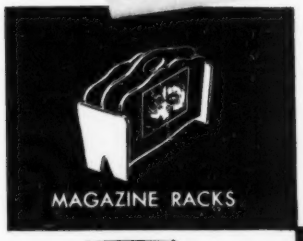
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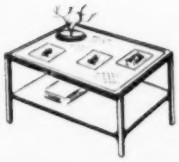
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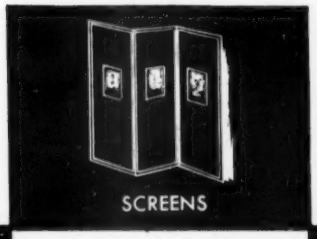
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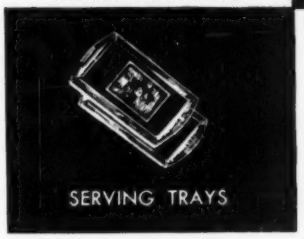
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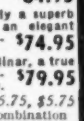

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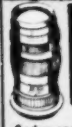

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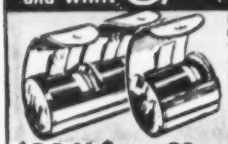
Famous German **WIDEANGLE FOR 4"x5" $19.95**
in famous Prontor synchro shutter

Commercial photographers and advanced amateurs alike have waited for just such a buy! Made by Leitmeyr, an old-time German optical manufacturer, the f:5mm f:6.8 coated wideangle anastigmat is for the 4x5 press camera owner just "what the doctor ordered". It covers approximately 85 degrees, and one half of the lens can be removed, converting it into a telephoto double the original focus length. The popular shutter has eight speeds and B; delayed action and built-in flash. Shipg. Cost 35c. Lensboard, with proper opening, for Speed Graphic, Busch (State model) $2.00.
120mm f:6.8 Leitmeyr wideangle lens, for 5x7", in Prontor shutter..... $29.95
65mm f:6.8 wideangle lens, for 2¼"x3¼" press cameras, such as Graphic, Busch, in latest type Prontor S synch shutter..... $29.95

FOR COLOR FOR BLACK and WHITE *Spiratone* **AUXILIARY TELEPHOTO AND WIDEANGLE LENSES HAVE PROVEN A MUST FOR 35MM**



$29.95 $16.95 each lens
Set of Telephoto and Wideangle lenses in double leather case, for any camera listed.

For these Cameras: Argus A2, A2F, C2, C3, C4, 21, Bantam, Boiscy B, B2, C, Contessa 35, Ikonta 35, Kine Exakta F:2.8, F:3.5, Kodak 35 (RF), Mercury II, Perfex, Polaroid Land, Pony 828, 135, Praktiflex F:2.9, 3.5, Retina I, II, Signet, Vito and most other 35MM cameras.

New, uniformly low prices save you between $5.25 and $19.70 per lens!

When ordering, be sure to state what camera and lens you have.

FILTERS:
Your choice of medium yellow*, green*, orange*, red*, haze*, photoflood*, type A, UV-16, UV-17 and skylight for use with Spiratone lenses.
Each filter. **$1.00**

Wideangle Finder Attachment for non-reflex 35MM and 828 cameras. **$1.95**

PROVEN FEATURES STILL AVAILABLE DESPITE NEW LOW PRICES:

- Extra-hard S-coating
- Full color correction
- Free genuine leather case
- Lifetime Service Guarantee
- No change in exposure or lens opening necessary

***TAX REDUCTION SPECIAL**
FREE Your selection of any two of the filters marked * with every Spiratone aux. lens ordered. With order for set, select four free filters or pay only $4.95 and receive all ten filters listed.

BRAND NEW FEATURES NOT AVAILABLE BEFORE

Telephoto Finder Mask, supplied free of charge with every lens, for every non-reflex 35MM camera.
All lenses furnished with either built-in or separate filterholders (save $1.25 or more per lens!) Interchangeability of adapters, so that one lens may often be used on several different cameras.*
Scientifically designed means of attachment of auxiliary lens to camera — every adapter expressly fitted for your camera.
*If you wish to purchase a lens or set of lenses to be used on two or more cameras, write us what your problem is, and we will try to furnish you with that model which can be adapted for use with your particular cameras. Each lens is furnished for use with one camera only —additional adapters are $1.25 each.
Shipping cost, for 1 lens 25c for set of lenses 50c

FREE 12 Page Booklet Tells All About Auxiliary Lenses, Write For It!

Unbelievable Savings on Coated, Color-corrected
8MM TELEPHOTO—WIDEANGLE 'PACKAGES'

PACKAGE A 1½" f:1.9 3X focusing telephoto (clickstops, depth of field scale), plus 6mm f:1.9 extreme wideangle (six elements, clickstops, filterholder) **$59.95**
PACKAGE B 1½" f:3.2 3X focusing telephoto, plus 6mm f:1.9 extreme wideangle.... **$49.95**
PACKAGE C 1½" f:3.2 3X universal focus telephoto, plus 7mm f:2.5 4X wideangle (clickstops, filterholder) **$35.95**
BONUS: On request with any 'package'—1" f:3.5 2X telephoto, at no extra cost.
Above Spiratone lenses have 'D' mounts, fit virtually all Revere (except 50, 55), Keystone, DeJur, Kodak, Reliant Cameras. For B & H Sportster, Companion, Trilens; for Cinemaster, and for Bolex L-8 an adapter is needed—$1.50 additional. Shipping Cost per Package 50c.
Trade your old, slow 8mm telephoto lens for a new, fast one (even f:1.5). Write us, stating what you have.

Tripod of the Month 6.95 with Spiratone Panhead

Six-section brass, beautiful chrome finish. Extends to 54", telescopes to 15½". Ideal for 35mm, 2¼ x 2¼ reflex, small folding cameras. Single motion panning and tilting action, locked by simple turn of handle. You'll agree this outfit should sell for double! *Ship. Wt. 4 lbs*
panhead alone $1.89

POCKET TRIPOD $5.95

A new imported 7 section tripod at a new low price! Extends to 45", yet fits neatly into your gadgetbag or pocket. Just the right thing for 35mm, tight 2¼ x 3¼ folding and reflex cameras.
Weight: 7 oz. *Shp. Cost 25c*
Suggestions: Accura Tilttop $1.00. Deluxe Tilttop $1.49.

slightly shopworn

Save 10.95 on Professional HEADMASTER TILTTOP $5.95
Only the discriminating photographer who has really 'shopped' for a massive tilttop that will hold any camera will appreciate this unusual buy! 180 degree tilting, with positive lock in any position. 360 degree rotation. Leather-covered camera platform. Solid metal throughout. Regularly (easily worth it!) $16.50. Sh. Wt. 4 lbs.

SAVE 66⅔% ON DELUXE CRAIG PAN AND TILT TOP $5.98
No advanced amateur or professional will want to miss this buy! Famous Craig-Thalhammer tripod head is calibrated in degrees of rotation—has "instant-on plug" 2¾" in diameter—extra long handle for guiding camera and locking tilting action. Reg. $17.50. Shipping Weight 3 lbs.

Tripod Extender increases height from 4¼" to 7¼". Fits any tripod. **$1.95**

FOR THE 8MM MOVIE FAN

Reg. $6.95. Save 57%
MANSFIELD
CINE TITLER $2.95

Titles add action, provide continuity for your movies! Yet, making titles is so simple with the Cine-Titler! Sturdy metal construction. Auxiliary lens for exact focus. Photograph picture postcards, titles of your own design: you can even shoot animated titles — an instruction booklet accompanies every titler.
Shipping Weight 4 lbs.
Titler alone $4.64

If purchased at the same time as Action Viewer, Action or Super-Deluxe Editor

Save $10.55 on complete Famous Make 4-piece
8MM EDITING OUTFIT $10.95

A value like never before! Outfit contains Projection Editing Viewer, with bulb, pair of rewinds with brakes, all metal splicer, all ready for simple mounting on board or table (not supplied). Can you afford to pass up such a value?
Shipping Weight 6 lbs.

Save on parts, too: Deluxe splicer, reg. $7.50—$4.95. Economy splicer, reg. $3.50 — $1.98. Deluxe rewind, reg. $7.50—$4.95

8MM PROJECTION EDITING VIEWER

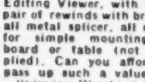
$6.95 You'll more than ever enjoy editing your movies when you use this neat, all-metal, electric editing viewer.

Ship. Wt. 2 lbs.

It projects a clear image on the groundglass, makes possible viewing from a comfortable distance.

Metal 8mm Reels & Cans
200 ft. sets—6 for $2.98
400 ft. sets—5 for $2.98
300 ft. sets—5 for $2.98

SUPER-DELUXE 8MM EDITOR



Projection Editing Viewer with bulb **$16.95**
(List $10.50), pair of deluxe rewinds with brakes (List $7.50), automatic dry-splicer (List $7.50), metal base (List $2.95) — complete 5-piece outfit yours for only $16.95. Ship. Wgt. 6 lbs.

ACTION EDITING OUTFIT $29.95

If you'd spend 100% more, you won't get a better buy than this 5 pc. outfit. 8mm action editing viewer, automatic drysplicer with built-in scaper, pair of precision machined geared rewinds with fingertip controlled drag brakes and 2000 ft. capacity, plus a sturdy base — this 5 pc. outfit costs actually less than the lowest-priced action viewer would cost alone! Ship. Wt. 10 lbs.
Titler, Action Viewer and Action Editing Outfit also available for 16mm at the same low prices!

ACTION VIEWER $19.95

A viewer which makes editing a real pleasure, projects brilliant 2½ x 3½" pictures in full action on the built-in groundglass screen — not just one frame at a time, but in continuous motion! Operator can adjust focus to his own vision. Easy to thread, scratch-proof, scientific ventilation of lamphousing — really a blessing for movies fans with a limited budget who know they'd have to spend $40.00 and up for a viewer like it!
Shipping Weight 4 lbs.

Lowest Prices Ever! Portable, Crystal-Beaded
30 x 40 TRIPOD SCREEN $6.89

Despite higher steel prices, Spiratone continues to offer you the biggest bargains in screens ever! Same quality as before, and as praised by thousands of movie and slidefans: Crystal-beaded pyroxilyn surface; screen raises and lowers on elevating rod, assuring positive alignment. Metal can has beautiful scratch-resistant finish. Carrying handle sets automatically for balanced carrying. Sturdy tripod is plated and has protective rubber tips. Thousands of these screens are in use, not only by amateurs, but by clubs, churches, colleges as well.

Screen Size	Appr. Shpg. Wt.	
30"x40"	6.89	10 lbs.
40"x40"	8.19	11 lbs.
37"x50"	9.64*	14 lbs.
50"x50"	11.89*	15 lbs.
52"x70"	24.95*	

These screens are shipped by us Express (freight costs collect) within U.S. — other screens can be shipped P.P. or Express.

POLARIZING FILTER Series V $2.49

21.5mm $2.00 — Ser. VI $2.98 — Ser. VII $3.98
The only sky-filter that can be used with color! Helps eliminate reflections in water; show-windows, landscapes; increases contrast between sky and clouds. Recommended for use with Kodachrome, Anscocolor and all black and white films. Fits standard filterholders.
Formerly, you had to pay $6.75 for a Series VI, $5.75 for a Series V polarizing filter—Spiratone brings your cost down to less than half!
Polarizing filters are delivered in leather-like snap-button compartment cases (except as below) at no additional cost.

GIGANTIC SALE IN OPTICAL GLASS
FILTERS AND CLOSEUP LENSES

Series V, VI, VII mounted in rings. All filters ground and polished. Your choice of yellow, orange, green, red, haze, skylight, Type A or Photoflood conversion, UV15, UV16, UV17. PLUS I (20" to 38") PLUS 2 (13" to 20"), PLUS 3 (10" to 13"). Shipping Cost one to six filters 10c

Ser. V ea. . $1.00
Ser. VI ea. . $1.25
Ser. VII ea. $2.00

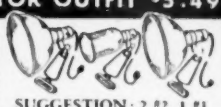
DELUXE FINISH (made for us by one of the best known filter mfrs. in this country).
Ser. V ea . $1.29
Ser. VI ea. $1.49

Available in "Deluxe" only: light yellow, #12, #2A, #85B, #81A, B, C, D, E, F, 1-D, 2-D, 2B.

FREE on request: Famous Make Filter Compartment Case with purchase of 4 or more Ser. V or VI filters (incl. polarizing) and closeup lenses. Cases cost regularly $1.50 (Ser. VI), $1.25 (Ser. V).

KINE EXAKTA OWNERS: write for "Good Buys in Lenses!"

THREE UNIT
REFLECTOR OUTFIT $5.49



Two aluminum 10" reflectors for #1 or #2 bulbs, one bullet reflector for spot effects, all three complete with swivel joint, switch, socket, clamp and cord — at a fraction of their usual cost.

SUGGESTION: 2 #2, 1 #1 photoflood bulbs 86c.
Shipping Weight 5½ lbs.
Free on request with $5.49 or $6.49 outfit: Shutter Speed Tester

Only Spiratone offers you this $11.00
PHOTOFLOOD STAND + TWO REFLECTORS FOR ONLY $6.49

The ideal indoor Lighting Set-up
3-section metal stand extends to 6'4". Sturdy, braced legs with rubber tips. Stand telescopes compactly to only 2 feet. Positive locking at any desired height. 22" crossbar. Can also be used to hold screen, backgrounds. Two spun-aluminum 10" reflectors (for #1 or 2 photofloods), complete with sockets, switches, 6' cords, ball-socket swivel joints, rubber-jawed spring clamps. Can be used on crossbar or furniture. Complete outfit $6.49.
Shipping Wgts.: Stand 4 lbs. Reflectors 4 lbs.
Suggestions: Two #2 photoflood bulbs . . . $ .68
Extra Clamp-on bullet with bulb (for semi-spot) 1.79
Photoflood Stand with Crossbar only 3.49

Clearance Sale—Save 43%
ACME LITEPAK $3.95

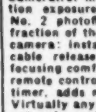
Comp Outfit Shown w. bulbs $6.25 film!)

Litepak contains 2 clamplites, clampon reflector, carrying case with compartments, lighting plans—a handy, compact, easy-to-use, complete outfit!
Two reflectofloods, one photofloodbulb (you'll need nothing else but camera and film!)—$2.25 extra. Ship. Wt. 6 lbs.

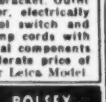
Save $22.00 on brand new
PHOTO-FLOOD SYNCHRONIZER $7.95

Cameratrol makes short-duration exposures with ordinary No. 2 photoflood bulbs, at a fraction of the cost of a flashbulb, can be used with any camera: instant synchronization is established through cable release socket. Built-in dimmer switch makes focusing comfortable, saves current and bulb-life. 18-foot remote control switch virtually eliminates need for self-timer, adds many possibilities to indoor picture-taking. Virtually any camera fits onto Cameratrol bracket. Outfit not only contains Cameratrol synchronizer, electrically operated cable release and remote control switch and Hi-lo switch, but also two eight foot lamp cords with sockets, making the value of the individual components alone worth so much more than our moderate price of $7.95. Shipping Weight 6 lbs. Add $.50 for Leica Model

make your ARGUS, KODAK 35, BOLSEY, LEICA, SIGNET, CONTAX, PERFEX, KINE EXAKTA, PRAKTIFLEX, CLARUS, PONY into a STEREO CAMERA for only $12.75



Taking stereo-shots with one of the 35mm cameras listed is almost as simple as making two-dimensional shots. And you'll never expect that your own camera is capable of producing such life-like pictures—with a single click of the shutter and on a standard 2x2 transparency!



Stereotach slips on and off the camera instantly, creates a double stereo negative or transparency on your film. There is no subject that won't gain immensely when viewed or projected in three dimensions: You'll marvel at the transparencies come to life in your viewer!
State camera you have when ordering!

FREE with Stereotach: Roll of Ansco color film, including processing and mounting for stereo viewing.
VIEWER for Stereotach-taken transparencies . . . **$4.95**
BATTERY illuminated viewer for Stereotach taken transparencies **$9.90**
Ship. Wt. of Stereotach and Viewer 2 lbs.

EXTENSION FLASH $3.95

For Argus C3, most other flash units (except PC). 15 foot cord, bulb holder (for screw-base), 5" reflector and means of attachment to your regular gun—all for $3.95. Shipping Weight 2 lbs.

SPIRATONE TWOLITE $2.95

Yes, it costs half of what you'd expect to pay for a neatly-finished all-metal light-bar with easy-to-grip handle, camera-platform, U-L approved sockets, switch and cord. Use hand-held or on tripod, with movie and still cameras. Use regular reflector floods—$2.30 the set.
Ship. Wt. 5 lbs.

ACME FOURLITE $5.95

Sturdy metal construction, separate on-off switches control inner and outer bulbs, luxurious porcelain bulb sockets, extra-large rubber-covered camera platform, permanently attached exposure guide. Uses four 375 watt bulbs safe on house current. Handle removable for tripod use. *Ship. Wt. 5 lbs.*

Time Exposure & Delayed Action Now Added to Every Camera
AUTOKNIPS II $2.95

This most popular of all self timers in conjunction with a cable release, adds to your camera a feature many a photographer has paid a small fortune for: 11 slow speeds from ½ a second to ten seconds! Was $4.95. Ship. Cost 10c.

German All-Metal **RANGEFINDER $2.95**

Employs super-imposed image system for rapid, accurate focusing from 2 feet to infinity! All-metal construction, leather covering, modern styling. Specify feet or meters. Case 75c.

SPIRATONE BACKS AND RECOMMENDS THESE NATIONALLY KNOWN QUALITY
LEATHER GADGET BAGS

Made by one of the foremost manufacturers in the field, and exclusively offered by us, through a special purchase, below or close to the usual wholesale prices. These bags are all brand new first class merchandise not to be confused with "seconds" or "closeouts" of inferior leather bags. Ship. Wt. of Gadget Bags, 3, 3, 4 & 6 lbs.

SP3. The SP3 is liked for its overall versatility. Made of topgrain oltanned cowhide, the SP3 has one large, two small inside pockets, a roomy outside pocket that will hold plenty of the extras that make picture-taking real fun. Rigid shape-retaining bottom, reinforced with brass studs. 8"x10" x1"—recommended for the camera fan who likes his filters, exposure meter, extra films accessible, yet prefers a compact bag. Budget-priced at half of list.

$6.95

SP4. A jumbo-sized, well-made genuine pigskin bag of beautiful appearance. Ample in size — 9"x11½"x4" —for small press cameras and plenty of accessories. Zipper around top for easy accessibility of contents. Roomy inside pockets and an extra large outside pocket.

$10.95

SP5. A topgrain pigskin bag for the advanced amateur or professional, large enough for press cameras (10"x12" x5"), or for taking "both cameras" along. "Wraparound" zipper, flashgun holder, shoulder pad. If you couldn't afford that $30.00 bag, you won't pass up the SP5 at a 54% saving.

$13.95

SP6. The latest addition to our line, and one of the finest. An oversize genuine cowhide pressbag, 10½"x 14"x5", largest size available in gadget bags costing normally $40.00 to $50.00. Adjustable strap with shoulderpad runs around bottom of bag—no equipment too heavy for this bag! Inside cover are a batterycase holder and a zippered pocket; on sides are one large pocket for meter, two small ones for filters. Adaptable inside partition. Back and bottom are fibreboard lined for extra support. We'd bet you'd only expect to pay that little only for a plastic bag, for the cowhide SP6 is Spiratone-priced at . . . . . .

$17.95

All Metal **STEREO-VIEWER** in lots of five **$1.95** ea.
for Realist-size mounts

This new German viewer shows clear, undistorted stereo, accommodates all standard size 4" x 1⅝" glasses and binders. Don't confuse this viewer with plastic or toy-like units; it has polished glass lenses, is made to last a lifetime. **$2.49 ea.**
Shipping Cost 1, 10c; 5, 30c **5 for $9.75**

STEREO COLOR SLIDES, 19 for $5.00. Sample Lot including lists. Selected scenic stereos, in lockslide mounts. This sample lot is offered at the quantity price applying only to 100 slides in order to get you acquainted with our beautiful selection. *Shpg. Cost 15c.*

STEREO COLOR SLIDES —AWARD WINNERS. 10 for $3.95 postpaid breathtaking stereos shot by the outstanding stereo photographers of our time. A selection you simply must have!
COMB OFFER: 10 Award Winning Slides, plus Metal Stereo Viewer **$4.95** *Ship. Cost 20c*

All Metal Stereo SLIDEFILE $2.49 5 for $10.49

Accommodates 75 Stereo glass (for 150 cardboard) slides, in slots. With index clamplock, carrying handle. Shpg. Wt. 3½ lbs. each

LOCKSLIDE STEREO MOUNTS, 100 for $4
Sturdy cardboard mounts, requiring no pasting, making stereo-mounting really simple and fast!
Shipping Cost 45c

STEREO

Closeups with the
STEREO REALIST
are no longer impossible or complicated work, when the new STEREO-ANGLE LENSES ARE USED. Matched closeup lenses with perfectly calculated prisms assure perfection in stereo-viewing and projecting. Lenses fit standard Series V filterholders ($2.00 a pair, from us). Available in Plus 1, 2 and 3—each matched set, in snapbutton case $9.90. All three sets for $25.95.
Ship. Cost, each set 15c, three sets 50c

SF 3 STEREOFILE $9.95

8lbs. Wt. 5 lbs.
Accommodates 120 Stereo glass (or 240 cardboard) slides in unbreakable slotted drawers, with index.

A sensational Spiratone Exclusive worth 2½ times as much!
FIELD LENS—$1.95

A flat thin Fresnel ring plate which fits over groundglass in your reflex camera, greatly increasing brilliance of viewing image, making the often almost invisibly dark corner image ten times brighter! Central clear spot in center makes possible use of magnifier for critical focus. No installation—just drop fieldlens onto groundglass. Postpaid.
For Rolleiflex, Rolleicord, Ciroflex, Argoflex, Kodak Reflex, Ricohflex, any groundglass 2¼ x 2¼ or smaller.

TRIPOD w. GEARED ELEVATING ACTION

Famous make tripod has geared center post, can be rapidly elevated to 71"! Hardened, anodized aluminum tubular legs collapse to only 26", making this 66 oz. tripod compact to carry. Single action handle allows effective panning and tilting. While sturdy enough for the 4x5" press camera, owners of lighter cameras, even 35mm, will appreciate the superb construction, the practical design, the extreme usefulness of this tripod. Shipping Weight 7 lbs.

$19.89
Three Section

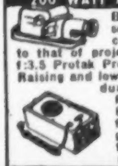
TURN PAGE FOR MANY MORE SPIRATONE VALUES

Save 50% and More On LUMINEX REFLECTOR FRAMES for 35mm color transparencies — 4 for $1.00 / 10 for $2.00

frame from rear

Luminex frames are the ideal way to show off your beautiful transparencies—you place transparency in slot, adjust silver-coated reflector, open easel wings and position under table lamp or near other source of illumination. Luminex plastic frames display your transparency permanently, will be proud additions to your furnishing. Frames are delivered in assorted colors, and for vertical and horizontal slides. *Shipping Cost for 4 15c, for 10 35c*

New and best value yet! 200 WATT MANSFIELD 2x2 SLIDE PROJECTOR — $17.95



Beautiful streamlined design, scientific illuminating system creates brilliancy with 200 watt bulb equal to that of projectors using 300 watts and more. Superb f:3.5 Protak Projection lens projects sharp, clear picture. Raising and lowering device, on-off switch, all-metal body, dual slide carrier, UL-approved. FREE with Mansfield Projector: UNIVERSAL BLOWER BASE, worth $7.69, also suitable for most other 100, 150, 200 watt projectors, provides cooling, making prolonged projection more comfortable. Carrying Case for Mansfield **$3.95.** Shipping Weight 11 lbs.

Comparable to 6c Slidebinders — 2x2 Glass Slidebinders in lots of 200 — 2½¢ ea.

The biggest bargain in quality slidebinders ever offered and one of the finest methods of mounting transparencies (35mm Argus, Leica size) between glass! Pregummed Fibreboard, self-centering of slide, provision for type-on titles, dustproof, lintfree, shockproof—all these advantages are yours for less than the usual cost of glass alone! Why risk fingerprints and scratches on your irreplaceable color shots? 200 for **$5.00.** Ship. Wt. 5 lbs. **800 for $18.95**

Sample package of 20 2x2 glass and 3 2x2 metal binders, postpaid **$1.00**

200 singleframe (Mercury) Masks **$1.75** | Masks fit glass
200 Square (Robot, Tenax) Masks **$1.75** | & metal binders

Save up to 40% on 2x2 METAL Slidebinders 6c ea.

The ultimate in simplicity! Aluminum glass binders, may be used over and over again. Just place transparency between glass, insert in metal non-warp frame.
18 for $1.26 — 54 for $3.51 — 126 for $7.56
Shipping Weight 1 lb., 2 lbs., 5 lbs.

2x2" cardboard mounts for single frame (Mercury size) transparencies **50 for 55c**—Ship. Wt. per 100, 1 lb.

3-drawer deluxe tu-tone SLIDEFILE — $7.95

Model S-300R is made of plywood, elegantly leatherette-covered. Its hinged door assures dustproof storage, the handle convenience in carrying. Really a 'piece of furniture' not just another slidefile. Drawers are slotted and hold up to 900 redimounts or 300 glass slides.
Sequence Model (S-300G) has movable partitions, holds up to 450 glass slides. **$7.95**
Shipping Weight 4 lbs.
S-400R, same as S-300R, but with four drawers, thus giving 33-1/3 more storage space. **$9.69**
Sequence Model (S-400G) holds up to 1440 redimounts, or 600 glass slides. **$9.69**
Shipping Weight 5 lbs.

2x2 ALL METAL SLIDEFILE $2.19

2 for $4.15 · 4 for $8.00

Accommodates 300 redimounts or 150 glass-slides. Slots prevent rattling. Index. Clamp lock and handle. *Ship. Wt. 3½ lbs. each.*

FRESH, SAFETY, GUARANTEED 35mm RELOADS IN METAL CARTRIDGES

KODACHROME $2.25 — DAYLIGHT TYPE, 20 EXP. Processing (w.o. mounting) by Kodak (25c per roll). 5 for $10 postpaid

ANSCOCOLOR 20 EXP. $1.50 — Daylight or Tungsten, Types 235 or 234, same as factory packed spools. Processing, incl. 2X color print, per roll $1. 8 for $10.50 postpaid

PLUS X or PANATOMIC X or SUPER XX 20 EXP 40c, 6 for $2 — 36 Exp. each 60c, 4 for $2. Ship. Cost: For 1, 5c; 3 to 5, 20c; 6 to 8, 25c

FRESH, SAFETY, GUARANTEED 35mm BULK FILM

KODACHROME $14.98 — DAYLIGHT TYPE 27½ FT. 50 ft. $25.98; 100 ft. $49.98. Processing (w.o. mounting) by Kodak at 25c per roll. *Shpg. Cost: 10c, 35c, 50c.*

PLUS X or SUPER XX $3.98 — 100 ft. fresh film, 50 ft. $2.29. *Shipping Cost: 30c.*

28 ft. factory-packed ANSCOCOLOR $8.98 — Daylight or tungsten type, notched and tonged for easy loading (leader not entirely necessary) of 8 generous 20 exp. rolls; with 8 cartridges.

35mm DAYLIGHT LOADER $4.95

including five cartridges IF PURCHASED TOGETHER WITH MINIMUM OF $10.00 WORTH OF BULKFILM. It's so simple to take advantage of the exceedingly low cost of 35mm bulkfilm and to load any desired length into a standard Eastman cartridge. First few reloads already make loader pay for itself.
LOADER, alone with 5 cartridges, **$5.95** *Ship Wt. 4 lb*
35mm Plus X, safety stock, short dated, in brand new metal Dover cartridges, 10 for $2.00, 25 for $4.00, 60 for $8.00. Allow for postage. (cartridges can be reused, are worth that much alone!)

Parallax-Correcting Close-Up Sets — ROLLEI, CIRO, ARGO, UNI, IKO, ANSCO, KODAK and other twinlens REFLEX CAMERAS

PLUS 1 SET $3.95; PLUS 2 and 3 SETS, $4.95 ea.

Set consists of matched closeup lenses for taking and viewing lenses, including parallax-correcting prism. Only Spiratone offers you these extremely useful, in fact indispensable sets, at a fraction of the usual cost — yet unconditionally guaranteed. Lenses fit standard filterholders—specify if you have Ser. V or VI. Parallax-correcting lens requires Series V holder for viewing lens, available from us. For Kodak Reflex, Ciroflex, Ikoflex $1.00; for Rollei bayonet f:3.5 $1.75; for Rollei bayonet f:2.8 $2.00; for Argoflex, Uniflex (setscrew) $1.40.
Shipping Cost, ea. set 10c

CLOSEUP LENSES for Every Camera

Fit standard filterholders. Complete with simple-to-follow instructions.
PLUS 1 (20" to 38") for portraits, baby shots.
PLUS 2 (13" to 20") for head-and-shoulder shots, copying, child portraits.
PLUS 3 (10" to 13") for copying old photographs, from books and magazines, for more or less extreme closeup work.
21.5mm 75c ea. Series V $1.00 ea., Series VI $1.25 ea., VII, $2.00 ea.
Shipping Cost, ea. set 10c

Closeups

are simple and inexpensive, when you buy your closeup accessories from Spiratone, the only firm specialized in low-cost closeup photography equipment.

FREE on request with your order of $3.00 or more, or send 15c. Booklet on closeup photography, containing profusely illustrated article on closeups by Joseph Foldes, depth of field, focusing, magnification, field coverage tables for closeup lenses, extension tubes, one page listing of inexpensive closeup accessories!

deluxe COPYING STAND $9.95

Designed by us for use in conjunction with closeup lenses, extension tubes, bellows attachments, to complete with a moderate investment, your closeup and copying equipment. Strong enough for a 4x5", yet compact in storage (two-piece post) and equally well suited for copying, medical, scientific work and movie titling. Camera bracket permits centering of camera over subject. 15x18" metal baseboard practical for large originals. 1½" diameter pole is 38" high. Shipping Weight 11 lbs.

Gooseneck Light Attachment $5.95

With C clamps fits copystand or enlarger pole. 2 bullet reflectors, $1.69 additional. Ship. Weight 4 lbs.

CLOSEUP-MEASURE with LEVEL $2.49

fits accessory clip of Leica, Retina, Contessa, most other better cameras, but can also be used handheld. Level helps you maintain perfectly level position whenever necessary. Tapemeasure is graduated in inches and centimeters, 100 cms. long.

A New German Import BC FLASH GUN $5.95

Bracket $1.00. BC Battery (lasts year) $1.00.
Passive Tripper for non-synch shutters $2.49.
All the features you want—at the lowest price a fine BC gun was ever offered at: removable aplanatic, highly efficient reflector; ejector; built-in testlight; interchangeable screw-in cords (your choice of ASA to fit almost any domestic synch shutter or Compur to fit all German synch shutters). Weighs only 4½ oz., fits into coat pocket. Slips on accessory clip of German cameras, or fits with bracket any camera. Kine Exakta model, including bracket $8.95. *Shipping Cost 25c*

40" CABLE RELEASE $1.25

Here is your opportunity to obtain an extra long cable release for your camera—at almost one third of the usual price and for pennies more than a short release. State what camera you have when ordering. Any length, Leica model 25c extra. Other Cable Releases, for Compur and Kodak-type shutters: **4" 25c, 7" 35c, 10" 45c.**
Shipping Cost 10c
Cable Releases, with setscrews (for time exposures on B), for Compur, Kodak, Wollensak, shutters: **10" 75c, 40" $1.50, 60" $2.50.**

Black and White 35MM FINE GRAIN SERVICES

Spiratone 35mm services are used all over the world. They combine extreme economy with expert workmanship and the use of the best materials. All enlarged prints are made on selected quality paper, with each negative individually exposed on the proper contrast paper.
Prices below include return postage.

"SUPERB"
Ultra Fine Grain Processing and 3¼x4½ doubleweight velvet enlargements. 20 exp. roll. **$1.18**
36 exposure roll $1.83 — 65 exposure roll $3.65

"MASKOSPOT"
The most highly-perfected 35mm service. Ultra Fine Grain Processing and enlargements on doubleweight velvet or singleweight glossy (please specify which) paper.

	3¼x4½	3½x5	4x6
36 exposure roll	2.60	3.12	3.66
20 exposure roll	$1.68	$2.08	$2.35

"EXCELSIOR"
Ultra Fine Grain Processing and 3¼x4½ glossy enlargements. 20 exposure roll. **$1.00**
36 exposure roll $1.58 — 65 exposure roll $3.10

The cost of reprinting uncut developed rolls is the same as that for undeveloped rolls.

for the DARKROOM

Precision German CHEMICAL SCALE $3.95

Every photographer knows the savings resulting from 'mixing his own'. This new import is extremely accurate (no springs), is graduated to 250 grams. Cup is removable, two legs turn for flat, compact storage. All metal construction. Ship. Weight 1 lb.

ALL-METAL 11x14 ENLARGING EASEL $6.95

Incl. Footswitch! Easel has spring-steel masking bands, white enameled base, adjustable for all sizes from 1½"x2½" to 11"x14". Plug enlarger cord into footswitch and you are ready to dodge, vignette and fully control your 'blow-ups'. Comb. Sh. Wt. 5 lbs.
8 x 10 Enlarging Easel, same construction, with footswitch. **$5.49**

Save $5.00 on SUNRAY ENLARGER $9.95

with lens and case Compact, portable. For negative sizes 35-mm to 2¼" x 3¼". Ideal for beginners. Complete with bulb, lens, negative holder, ready for use, yet instantly disassembled and stored in the handy carrying case. Reg. $14.95. Shipping Weight 10 lbs. FREE: Test strip Maker to assure perfect exposure. A $1.95 value.

ELECTRIC PRINT DRIER $5.95

with two 12x17" Ferrotype Plates
Yes, Spiratone does it again! A complete, ready-to-use electric drier, with a capacity of 2 8x10 or an accordingly larger number of small prints—singleweight or doubleweight, glossy or dull finish — simply constructed, yet as efficient as units costing several times as much. Works on AC or DC. Sh. Wt. 4 lbs.

Adjustable DEVELOPING TANK $1.49

for 35mm, 828, 127, 120, 620, 116, 616
Simple bayonet lock for different size adjustments. Vents for quick changing of liquids. Agitating rod. Easy loading in darkroom — other operations in daylight. Easily worth double. Shipping Wt. 2 lbs.

FREE Lott Tank Agitator, worth $1.95, with purchase of any three items from above darkroom listing.

35mm CONDENSER ENLARGER $19.95

Everyone agrees: There is nothing like it on the market, even at double our price! Made with the precision German craftsmen are known for, this enlarger has a coated 2" f:6.3 anastigmat lens, yielding prints of perfect definition; its single condenser assures just the right contrast. Double column raising and lowering mechanism assures sturdiness; inclined position of post makes centering of projected image easy. Blowups to 5 x 7 are possible on wooden baseboard—by projecting onto a lower level, virtually any size enlargement can be made. Complete with negative carrier, red filter, cord and switch. Bulb, 40c *Shipping Weight* 7 lbs.

CHANGING BAG $3.95 postpaid

One of the most important 'tools' of any photographer. Whether for use in an emergency, with the film torn or pulled off the spool in a 35mm camera, or for reloading cutfilm holders or for developing films when no darkroom is available, a changing bag is justly referred to as a 'portable darkroom'. Double zippered inner and outer bags, made of the finest cloth, make this bag lightproof in brightest sunlight. 17"x16" Working Space, plus elastic sleeves—all these features at the lowest price a quality changing bag was ever offered at. Professional Model 27" x 30" working space, an $11.00 value **$6.95**

Big Sale on Imported CUT FILM HOLDERS, 6½x9cms 83¢ ea. in lots of 12

$1.00 Each—6 for 5.29—12 for 9.96
Ship. Cost 10c, 35c, 50c
Here is an unusual opportunity for the owner of 6½x9cm Ihagee, Voightlander (Avus), Zeiss Ikon, Recomar, Agfa and other popular make cameras to get quality French cutfilmholders at half the usual cost. Designed as plateholders, with cutfilm sheaths in each for easy loading, these rugged, all-metal holders are perfectly lightproof, easy to load and smooth in operation

35mm B&W TRANSPARENCIES

the most thrilling way of presenting your pictures. Printed from your 35mm films (doubleframe or singleframe Mercury size), without changing them in any way. Projection Positives are made on an extraordinarily fine grain film, with each negative INDIVIDUALLY exposed. Viewed in a small viewer or projected life-size on a screen — you'll enjoy the wide tonal range, the three-dimensional quality, the sparkling brilliance which only SPIRATONE PROJECTION POSITIVES can reveal in your pictures. Let us make transparencies from your old rolls, too, so you can relive those happy memories! Send us your next 35mm roll for Projection Positive Printing; there is no extra charge for ultra fine grain processing the negatives.

ANSCOCOLOR
72-HOUR PROCESSING + $1
1 2¼x3¼ COLOR PRINT
ENCLOSE TRANSPARENCY FOR FREE PRINT OR ASK FOR PRINT COUPON! 20 EXPOSURE ROLLS (DOUBLEFRAME) PROCESSED AND MOUNTED $1.00

PROJECTION POSITIVES ARE SURPRISINGLY INEXPENSIVE: From Uncut 35mm rolls: 20 Exp. Roll 65c; 36 Exp. Roll $1.05; 65 Exp. Roll $1.80. From strips having less than six exposures, but no shorter than 4½ inches in length; or selected by frame No.: each frame 10c.

Complete price list of other 35mm services, black and white and color, on request to Dept. PP.

new products section

A 3" f:1.9 TELEPHOTO LENS FOR 16mm, one of the fastest telephoto lenses of its kind, has just been introduced on the American market, the latest in the series of Japanese-made quality Kinotel lenses. It is coated, color-corrected, has clickstops and fits all C-mount 16mm Revere, Keystone, B&H, Bolex cameras. At **$49.95**, is gives 16mm moviefans every reason not to settle for a slower lens.

An ideal companion to the 3" f 1.9 Kinotel is the 17mm f 2.7 Kintar focusing wideangle lens. This coated, color-corrected clickstop lens focuses as close as 10" **$34.95**

ON POPULAR DEMAND, THE ACTION EDITOR, formerly made for 8mm only, is now also available in the 16mm size. It projects a brilliant 2½" x 3½" picture in full action on the built-in groundglass screen. The motion is produced by an eight-sided prism which is activated by the sprockets of the film as it is pulled through the editor. Threading is very simple, the lamphouse is well ventilated. The splicer has a built-in scraper and the rewinds accommodate up to 2000 foot reels, have fingertip controlled drag brakes. The outfit, including base, costs **$29.95**, the action viewer alone **$19.95**.

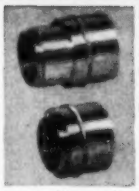
In order to help you reduce the cost of reels and cans, we bought a vast quantity, are glad to be able to offer 16mm 400 foot brand new metal reel and cans sets at **$3.49** *for six!*

LENSCASES FOR LEICA, EXAKTA, CONTAX, PRAKTICA LENSES, are now available in the greatest selection ever. Made of the finest German leather, plushlined with means of attachment to camera case carrying strap, these cases are priced from **$4.00** to **$5.75**, fit almost every German (Leitz, Zeiss, Steinheil, Schneider), French (Angenieux, Berthiot), Japanese (Sun, Arco), lens having a focus length 35mm, 40mm, 50mm, 58mm, 85mm, 90mm, 105mm, 135mm. When inquiring about price, state model lens you have.

Don't neglect protecting your normal lens, when it is not in use. A case for the 58mm preset diaphragm Biotar f 2 costs only **$4.95**—*indeed inexpensive insurance for your fine lens!*

THE BELLOWSCOPE JR. is the newest and one of the most practical bellows units for Leica, Kine Exakta and Praktica cameras. Designed by the old and proven principle of a double extension bellows camera, this compact unit, not much larger than a package of cigarettes when closed, extends to a full 6", allowing extreme closeup work, as well as telephoto work with short-barrel telephoto lenses or the front part, containing the optics, of the 135mm Sun lens. The leather bellows run on double geared tracks, assuring proper alignment, and the standard or any other lens made for the camera will fit the front of the Bellowscope Jr. **$19.95**.

Well suited for use in conjunction with this unit, and the Kine Exakta or Praktica, is the 105mm f:4.5 Colinar, a shortbarrel telephoto lens with clickstops which makes possible a complete range of closeup to telephoto work. **$34.50**



FOCUSING EXTENSION TUBES are among the most flexible closeup accessories made. Available for Leica, Kine Exakta, Praktica, Praktiflex FX, these tubes allow as much an adjustment as two tubes in your regular extension tube set (5mm plus 15mm), yet leave no blind spots in their range. If you already own a set of regular tubes, you will still find the focusing tube a valuable accessory, making your set much more versatile. The tubes are made of brass, chrome-finished, by German craftsmen. At **$9.95**, no serious photographer will want to be without a focusing tube.

Note. Minus lenses, for telephoto effects, are particularly easy to use with a focusing extension tube—don't miss up on the opportunity of making your normal lens into a telephoto, a telephoto into an even longer focus length lens.

KODAK NEGATIVE COLOR FILM introduced in **35mm!** This development was eagerly awaited by photographers realizing the overwhelming advantages of a negative color material from which not only perfect positive color slides could be made at low cost, but inexpensive black and white prints, or dye transfer prints without the necessity of separation negatives. Eastman Negative Color film is fast (A.S.A. 16) and currently available only in Daylight Type. Regular Kodachrome conversion and correction filters are used, for artificial light or other use under special conditions.

This film is available in 20 exp. cartridges, with 1954 expiration date, priced at **$2.98** *each or seven for* **$19.75**, *including processing of the negatives with one set of mounted (double-frame) color positive slides. An extra set of color slides is available any time at* **$1.00**, *but as a special introductory offer we are supplying the film including processing and two sets of slides at* **$3.50** *or three for* **$10.00**. *(Shpg. Cost, per roll, 5c.)*

NEW PRODUCTS from the past two months you may have overlooked:

LOW PRICED METAL STEREO VIEWER, for Realist-size slides, only **$1.95** in lots of five. Ideal for commercial use.

A WIDEANGLE LENS FOR 2¼ x 3¼ in the popular price range. The 65mm f:6.8 Leitmeyr lens, in Prontor S shutter, at **$29.95**, was eagerly awaited by miniature Speed Graphic owners.

UNIVERSAL ZOOM FINDER with settings from 28mm to 135mm fills a distinct need in the otherwise crowded field of universal finders. Not only is ours the lowest in price, but it offers most. **$29.95**

TWO-IN-ONE ADAPTER for Kine Exakta owners, at **$4.95**, was a badly wanted accessory at a popular price range. A 'must' for moderate closeups.

A PROFESSIONAL-SIZE CHANGING BAG, with 27" x 30" working space, followed the successful introduction of our $3.95 amateur model. The large bag, at **$6.95**, represents, we believe, an equally outstanding value.

BC GUN now available for Kine Exakta, Exa. At **$8.95**, it represents the best value in low priced guns for these cameras.

DARKROOM SCALE at popular price, **$3.95**, was wanted by many. The former need for expensive scales prevented many photographers from following their ambition to 'mix their own'.

BAYONET REAR LENSCAP for Kine Exakta lenses at **$1.00**. We had these made in response to many requests; you will find you need one for each extra lens you have.

LATEST JAPANESE OPTICAL IMPORTS

20 POWER 7½ OZ. TELESCOPE $7.95

Precision ground optics are hard-coated to reduce glare, assure maximum brightness. Sturdy metal construction despite light weight. By no means a toy, but an advanced 6 element optical instrument, with a 2 lens, fully achromatic objective, 2 erector lenses, a 2 element Ramsden eyepiece. Pocket size 6¾", extends to 15¼", threaded fittings, chrome-plated inner tubes. A must for vacationing, outdoor sports, hunting, boating, observing races.

30X TELESCOPE, similar to 20X, but 50% more powerful. **$9.95**

10X TELESCOPE, two sections **$5.95**

COMBINATION SPECIALS!

20 Power Telescope and 6X Penscope for $10.95

300X Microscope with 12 Specimens for $10.95

6X PENSCOPE

Coated! fits pocket like fountain pen, is always handy. Eyepiece, objective and erecting system in satin-finished neat extension chrome barrel bring objects 6 times closer, magnifying area 36 times! **$3.95**

10 Pc. DISSECTING KIT $4.95

Magnifying Glass, Dissecting Scissors, tweezers, dissecting needles, scalpels, spatula—all in a hardwood carrying case. Every microscope owner needs a set to prepare his slides.

TRIPLE REVOLVING 100X-200X-300X MICROSCOPE including! **$17.95** dissecting kit

A microscope suitable for students, schools, hobbyists. All metal construction, left and right hand focusing, body tilt adjustment, adjustable plano substage mirror, 3 objectives on turret, instantly making possible desired magnification. Comes complete with one specimen and wooden box. Your friends will guess you invested 5 times the amount of $17.95!

200, 400, 600X Model similar to above, but twice as powerful. (including dissecting kit, $22.95).. **$19.95**

20X - 40X - 60X POCKET MICROSCOPE $2.95

Precision-ground optics make this adjustable microscope indispensable for field use. Helps you examine minerals, gems, insects, etchings—in fact you'll be able to find a million uses for this instrument. Select power you want, then turn knurled knob until you obtain pinpoint focus. Sells for up to 10% more.

100X Pocket Microscope $1.95

20X Pocket Microscope ..... .98

300 POWER MICROSCOPE $9.95

A precision import, suitable for students, schools, hobbyists. All metal construction, left and right hand focusing, body tilt adjustment, adjustable plano substage mirror, large square platform—a powerful instrument producing a needlesharp image equal to that produced by microscopes costing many times as much! Complete with neat hinged wooden box *Shpg. Cost 75c*

COATED! 10 POWER PRISM BINOCULAR $19.95 *plus 20% tax*

Terrific power— brings distant objects ten times as close. Huge objective has tremendous light-gathering power. Superb coated optics produce razor-sharp images. Featherlight, 7½ oz. and compact, fits palm of hand. Individual micrometic ocular lenses for accurate, instant focusing. Modern styling in gleaming chrome and lacquer finish, dust and moistureproof. Field of view is about 300 feet at 1,000 yards! Ideal for hunting, fishing, camping, traveling. Genuine Pigskin Case and Black Silk strap $1.95 add'l. Cash orders postpaid.

FREE 20 POWER POCKET MICROSCOPE —yours on request with order for $27.00 worth or more of items from optical listing.

A $10. Value 12 PREPARED SPECIMENS $1.89

Each specimen is cultivated, cleaned, dissected, stained, mounted and covered for permanence. (Many other sets available—Write for list).

SWIVEL HEAD SURFACE MICROSCOPE $26.95

with 5X, 10X, 20X, 30X Eyepieces. Enough room below lens for fine work of all types—suited for instrument repair, tool inspection, etc. A delicate instrument.

TWO-IN-ONE 50 POWER MICROSCOPE 10 POWER TELESCOPE $4.95

The most useful optical instrument you ever saw! Examine fine fabrics, stamps, minerals brilliantly fifty times enlarged! Unscrew reflection cup, pull out inner tube and see distant objects come into sharp focus. Magnified ten times! Micro-Telescope consists of eyepiece, objective and erecting system with outer surfaces coated, in satin-finish chrome extension barrel.

OUTER SURFACES

Please allow for new 20c extra parcel post charge on bulky articles (editors, bags, reflectors, screens, slideflies, etc.).

All prices include excise tax. Postage and insurance MUST be prepaid, even when no shipping weight is stated—overpayment will be credited in full. Everything listed is brand-new (unless otherwise stated) and fully guaranteed against defects. 25% deposit on C.O.D.'s. Items marked FREE must be requested at time of purchase!

SPIRATONE INC. 49 WEST 27th ST., NEW YORK 1, N. Y. 32-34 STEINWAY ST., LONG ISLAND CITY 3, N. Y.

why risk a nixie when you can grab a nifty?

The shot you muff today you won't get tomorrow. Play safe! Always carry Enteco's Medium Yellow Filter—the professional photographer's stand-by, for stand-out results. Use it for seascapes, landscapes, buildings, bridges. It offers *complete* color correction, in daylight, with pan film!

Enteco does more for you, because more is done for Enteco. Six times in all, in Enteco's own optical plant, your filter is checked — for precision, parallelism, flatness. Small wonder that photographers call Enteco America's *finest*. It has to be *right* — before it can be Enteco.

Your dealer stocks Enteco filters in every type and size — or can order for you. Don't be switched. Enteco Medium Yellow Filter: $2.00 in series V, $2.50 in series VI.

STOP THAT FLARE
from sky and sun outdoors
from lamps indoors
—WITH ENTECO LENS HOODS

Screw a **professional** Enteco Lens Hood into your adapter ring, when you attach your filter or supplementary lens. You'll notice the difference, in shot after shot — because you'll stop flare, **cold!**

Enteco Lens Hoods are precision-built, by Enteco's own craftsmen. Machined from Duraluminum, for ruggedness and light weight. Satin finished on all outside surfaces, for professional appearance. Lined with black Perma-felt — permanently black, permanently non-reflecting, to absorb **all** stray light.

Enteco offers America's greatest variety of lens hoods. Yet you pay nothing extra for must-be-right choice. For example: standard series IV lens hood $1.40, standard series V lens hood $1.75, standard series VI lens hood $2.00. Get Enteco — and you get the **finest.**

FREE
- *Fact-packed bulletins you can put to*
- *work at once, to give your pictures*
- *that "professional" look. Included is*
- *exclusive information on films, filters, lenses, other attachments. Write*
- *NOW.*

FOR AMERICAS FINEST FILTERS and LENS ATTACHMENTS, SAY: Enteco

Enteco INDUSTRIES, INC.
610 Kosciusko St., Brooklyn 21, N. Y.

BRUCE DOWNES'

point of view

Who Can't Afford Photography?

Beginning on page 79 in this issue the reader will find the Annual Directory of photographic products which each May reminds us vividly of the stupendous extent to which manufacturers small and large have gone to satisfy the demands of the great photographic public. Cameras of every conceivable size and shape with an extraordinary variety of lenses and ranging in price from a few to hundreds of dollars today make the beginner's problem of choice something of a major dilemma.

This multiplicity of equipment might tend to over-emphasize the importance of the mechanical means by which photographs are made. Too many people look upon photography as primarily an activity designed for gadgeteers, which it certainly sometimes seems to be, rather than for the picture maker, which Daguerre intended it to be. We in photography are, indeed, surrounded by gadgets, which are the symbols of a medium which does employ mechanical tools. But the gadgets with their chrome glitter can too easily obscure the meaning and the purpose of photography, with the result that where the gleam and glitter and the calibrated knobs and levers attract many, they repel many more, who, recognizing economics, conclude that they can't afford photography.

Thus it becomes periodically necessary to repeat that fine photographs can be made with inexpensive cameras and no gadgets. One has, in a word, to break through the gadget barrier in order to see that photography really is a simple thing—that it requires nothing more than a mechanical device which will transmit light from objects in nature to sensitized film. Any camera will make pictures.

The camera, no matter how fancy and expensive it might be, can never transcend the photographer, who determines what images in nature shall pass through the portal of his lens. It is by now a platitude that pictures are produced by the person behind the camera, not by the camera, which is only the tool. It is the degree to which the person is perceptive and responsive as well as master of his camera, which determines the quality of his pictures. The true quality has little to do with the price of the camera.

It is true, of course, that though the inexpensive camera will serve a wide variety of picture purposes, the better camera, like the better tool, will serve the photographer better. Better cameras *broaden* one's picture-taking opportunities, even though few people even begin to exhaust the possibilities of inexpensive ones.

Thus to the person who says: "Yes, photography is a wonderful hobby, but it's too expensive for me," I say it is not too expensive for anybody, because, in the first place, there is a camera to fit any purse. Moreover, it is my invariable counsel to the beginner that he buy an inexpensive camera and use it until he begins bumping his head against its limitations. He will then have learned enough about basic photography to turn to a discussion of camera types like that which begins on page 34 in this issue and decide what type of camera will serve him best. The glittering cameras on the market will then no longer bewilder him with their staggering multiplicity.

But what about the economics of better cameras? Isn't this the point where photography becomes too expensive for the average person? People who say they can't afford a fine camera fall under Oscar Wilde's classification of people who know the price of everything and the value of nothing. Only those hundreds of thousands of people who are enjoying its incomparable fun and creative satisfaction know the true value of photography. They know that it cannot be measured by the price tag on a camera. People who say they can't afford photography don't even know the economic facts of life. A sum of money spent for a fine camera is not an expense—not money down the drain, but a capital expenditure, which any accountant will tell you should be apportioned over the years the equipment is expected to be used. It is a piece of durable equipment which, like an automobile, continues to have value throughout its useful life.

Suppose you spend $150 for a good camera. You have not thrown your money away but exchanged it for a piece of valuable equipment. That camera continues to have ready market value. Suppose you use the camera for five years. At the end of that time, assuming you have taken good care of it, you will probably be able to sell it for at least $75, which means that the use of the camera during those five years cost you $15 a year, or $1.25 a month!

Indeed, the price tag on a camera is no index to its worth. In terms of the genuine satisfaction and enrichment afforded by it through the years, a $500 camera is cheap. I know of no such bargain anywhere. A camera can yield inestimable hours of pleasure, record many of the great but evanescent moments of a lifetime, create works of art, earn a man's living.

Is this May issue a directory to mere gadgetry? Of course not. It is a guide to the tools that make the miracle of photography possible.—

The Greatest Little 35mm Camera Made

Flat, compact, light and trim, a Baldinette is the ideal companion for pocket or purse. Lens and shutter are fully protected while closed. The push of a button snaps the camera open . . . ready for instant action.

These Baldinettes are superbly constructed and handsomely finished. They are equipped with famous lenses and flash-synchronized shutters . . . just about everything for top-notch pictures in black-and-white and color. Feature for feature, price for price, there is no better buy.

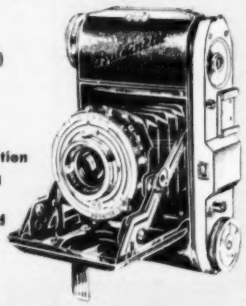
BALDA Products include the Baldix and Baldalux roll film cameras. See your dealer or write for literature: Kling Photo Corporation, 235 Fourth Ave., New York 3, N. Y. Western Offices: Los Angeles 46, Calif.

BALDINETTE 35

A true miniature, simple to handle, easy to use . . . equipped with Schneider Radionar f3.5 coated lens and all the features designed for better picture quality.

Features Include:

- **Fully Synchronized (M-X) Prontor SV Shutter**
- **Eight speeds: 1 sec. to 1/300th, plus 'B'**
- **Body release with Double Exposure Prevention**
- **Easy Front-lens Focusing**
- **Built-in Self Timer**
- **Automatic Film Stop and Counter**
- **Optical Viewfinder**
- **Accessory Clip**



With f3.5 Schneider Radionar Coated Lens . . . Only $49.95

Super BALDINETTE 35

A top-quality miniature with coupled rangefinder, in a choice of two famous lenses in fully synchronized Compur-Rapid shutters. The Super Baldinette 35 is your assurance of truly outstanding picture results.

Features Include:

- **Coincident-Image Coupled Rangefinder**
- **Fully-Synchronized (M-X) Compur Rapid Shutter**
- **Nine speeds: 1 sec. to 1/500th, plus 'B'**
- **Body release with Double Exposure Prevention**
- **Helical Focusing Mount**
- **Automatic Film Stop and Counter**
- **Optical Viewfinder**
- **Accessory Clip**

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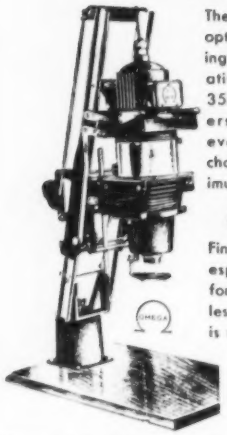

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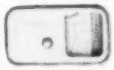

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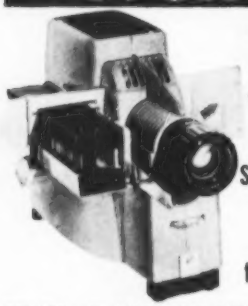

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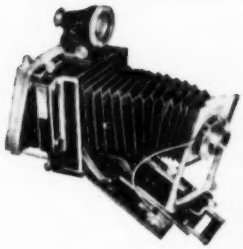

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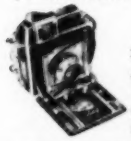

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	f3.5 Zeiss Tessar	339.00	299.00
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3¼ x 4¼	f4.7 Schneider Xenar 5"	303.00	258.00
	f4.7 Optar 5¼"	313.00	268.00
	f4.7 Ektar 5"	313.00	268.00
	f4.5 Zeiss Tessar 5¼"	329.00	284.00
4 x 5	f4.7 Schneider Xenar 5"	308.00	263.00
	f4.7 Optar 5¼"	318.00	273.00
	f4.7 Ektar 5"	318.00	273.00
	f4.5 Ektar 6"	343.00	298.00
	f4.5 Zeiss Tessar 5¼"	334.00	289.00
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Twilight of the (Old) Gods

Those of us who got into this thing quite a while back, when a salon print just *had* to satisfy certain arbitrary requirements, are aware of a Change. One club after another has found that the mossbacks can ruin a group if allowed to run everything their way. It has become evident that a club goes places when *everybody* gets consideration on print night, when the wagon-wheel and winding-road adherents perforce see somebody else win an occasional sticker or ribbon.

A recent issue of the "Fort Dearborn-ite," bulletin of *Fort Dearborn-Chicago Camera Club*, bears out this evidence that serious amateur photography is about to be emancipated. Editor Clara Skidmore posed this question: "Should a well-rounded club program give some emphasis to *good photographic technique* —or should the program be set entirely from the *pictorial* point of view?" She printed the answers of several leading and highly competent members. These respondents were chosen to represent a wide variety of viewpoints. Let's see what we come up with in quoting significant passages from their answers.

Fred Fix, Jr., APSA: "Record pictures taken from the pictorial viewpoint are always more pleasing to look at. . . ."

Fred G. Korth: "Is there any reason why good composition or good print quality cannot be applied to a record shot or documentary photograph? . . . As long as only the parents and relatives care about the (baby) picture, you have not made it good enough. . . ."

Hilleve Clifford: "Just as a football team does not determine the status of a university, the salon record of a camera club is an incomplete criterion. . . . We need to pursue a well-integrated program which considers all of the membership. . . . Let's give everyone a break . . . and get off this 'single standard' of pictorial photography on which so many of our commentators have been raised."

Lionel Heymann: "We should give the young amateur photographer a little more encouragement for work that is non-pictorial. . . ."

Leonard Purin: "Reaching for pictorial photography, many of us overlook the importance of photographic technique, which is after all the foundation of photography. . . . Technique should be mastered first. . . ."

James McMahon: "I believe that a photograph of anything that is of more than personal interest, and is the best picture that could be obtained under existing conditions, rates with the finest of worked-over inconsequential stuff. . . . Drop the politically conceived 'record' and 'documentary' designations — after all, many 'pictorial' pix are only record shots of some old mill. . . ."

You sum them up your way—as I see it, the replies indicate the following heartening sentiments: *Away with hidebound standards. . . . Encourage the beginner. . . . Remove the arbitrary barriers of designation—a good picture is a good picture. . . . There's no substitute for good technique.*

The last one is especially significant.

Personally, I'll always admire strong composition and really fine print quality. I feel that some of the impressionistic imported stuff called great is no better than a bunch of picnic snapshots in its obvious lack of basic technical competence. But there's an invigorating, fresh breeze blowing through the auditorium now. It's certain to wake up a lot of people and blow away cobwebs and dust. Who knows—the salonitis virus may be licked yet.

Tried This Program Idea?

A batch of identical negatives, supplied by Ansco, recently was distributed among members of *Camera Club of Bozeman* (Mont.). In making a print, each recipient is given free choice in the matter of dodging, cropping, toning, paper, and so on. All prints will be brought to a workshop meeting, for discussion and comparison with Ansco prints from the same negative. This is a great way of learning how to make an effective enlargement.

Wants Your Ideas on Judging

Schenectady Photographic Society wants to hear from camera club officers or others interested in the problem of how best to judge prints and slides. *Schenectady* has been studying the matter carefully, wants to compare notes with other groups, hopes to devise a recommended standard for this activity. Write to Arthus Kiess, 1428 Via del Mar, Schenectady 9, N. Y.

Canadian Cabinet Member Gives Praise

In opening the 12th Montreal International Salon and Third International Slide Exhibition, Hon. Milton Gregg, VC, Canada's minister of labor, told his audience that international shows of any kind are helpful in bringing the world together. The show pointed up the Hon. minister's words, since it included prints from such Iron Curtain countries as Czechoslovakia, Hungary, and East Germany. The 200-print show was hung in the Montreal Museum of Art. Some 500 entries were received.

Any Flower Slide Shows?

If your club plans a slide show devoted entirely to flower subjects, Fred Neuschel would like to send along his collection of rose close-ups. His address is 210 Jewett Avenue, Buffalo 14, N. Y.

Mail Requested

Have your club secretary drop a line to the following groups, both of which are just getting started and will appreciate

Stars of Warner Bros. "House of Wax" say...

"Stereo-Realist pictures are a thrilling experience in three-dimensional realism."

See VINCENT PRICE, FRANK LOVEJOY, and PHYLLIS KIRK in "HOUSE OF WAX."
A Warner Bros. Production in Natural Vision — 3 dimension. Color by WarnerColor.

People who know picture-making, prefer Stereo-REALIST

(the camera that puts 3rd dimension on film)

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REALIST pictures in full, natural *color* and true-to-life *depth* are amazingly lifelike. People are so natural you expect them to talk . . . scenery is so breathtaking you almost feel the wind on your cheek and sun on your back. The REALIST is pleasantly simple to operate — and economical, too. Ask your camera dealer to show you the REALIST. DAVID WHITE COMPANY, 363 W. Court Street, Milwaukee 12, Wisconsin.

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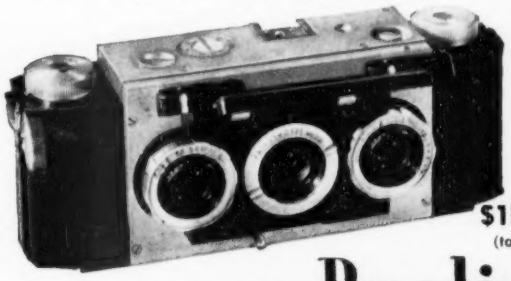

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program ideas and other suggestions offered:

Lower Cape Fear Photographic Society, Harry H. Tabb, secretary, Box 403, Wilmington, N. C.

YMCA Camera Club, George Johnson, program director, YMCA Hotel, 826 S. Wabash avenue, Chicago 5, Ill.

We Hear . . . That Mrs. J. A. Bush, editor of *Oklahoma Camera Club's* sprightly "Hypo Check," has found a sure way of getting editorial contributions. On meeting night each member gets a slip of paper upon entering the hall, cannot get out without writing a news item on it. Among the first batch, Mrs. Bush tells us she got three love notes. (This is *news?*)

Photographic Society of India's official publication, "Click," came out with an interesting cover picture not long ago. Shows young lady in act of eating an apple taken from a basketful she has, while another gal reaches out of a framed portrait on the wall to beg one. Very good technical job.

Boston Camera Club went all out to get competent instructors for its spring course in portraiture this time. Classes will be under the tutelage of Russell and Philip McKeen. Phil is president of New England Photographers Association, Russ is past president. Both are alumni of the Winona school, and have been successful portrait men for 20 years or so. Incidentally, we hear that the punch served at *Boston's* Christmas party was very fine indeed. Whit Standish advises that it is called "Whistler's Mother—one drink and you're off your rocker."

For its small print contest, *Kalamazoo Camera Club* divided the membership into two teams. Names were drawn from a hat and put into two envelopes which then were sealed. Nobody knows who's on which team until the end of the contest, when scores will be added up.

Chicago Color Club's annual course in composition was a complete sell-out three months in advance. Limit was 30 persons. Frank Bemm is this year's instructor.

Village Camera Club (New York City) has launched a long-range print program. Members are invited to submit pictures in any or all of the following categories: Old and Young, Mother and Child, Children in New York, and Family. These prints will be hung and analyzed separately from the regular print night entries. Idea has possibilities for gathering many significant photographs.

Colleague Bob McIntyre relays a bit of interesting intelligence he picked up while attending a slide exhibition not long ago. On this occasion the projectionist was announcing the title of each slide as it hit the screen. Came one transparency which showed a night scene on the main street of an un-named town. Most noteworthy characteristic of this shot was that the photographer had jiggled the camera so much that the street lights had registered several images each. Before the commentator could get a word in, some wag in the back of the hall yelled: *"Sioux City Shook!"*—

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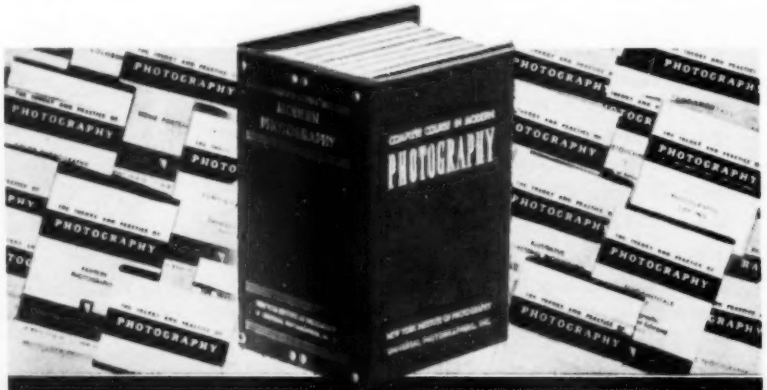

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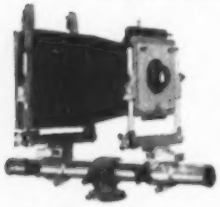

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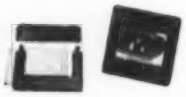

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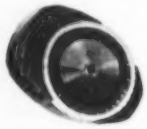

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tools and techniques

by Norman C. Lipton

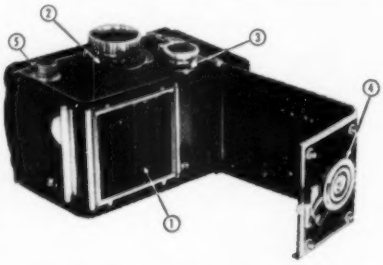
A round-up of recent developments and significant trends

Whiter Prints. Last December 22, representatives of the photographic press in London were given the details of a novel fluorescence method for increasing the whiteness of the highlights produced by photographic printing papers. The conference was conducted by Dr. H. Baines, deputy director of the Kodak (Ltd.) Research Laboratories. According to reports on the meeting in the British press, all Kodak papers manufactured in Great Britain today incorporate a colorless dye which has a bluish white fluorescence when exposed to any ultra-violet radiating light source—daylight, fluorescent tubes, etc. This in intended to overcome the faint yellow hue normally imparted to printing papers by the gelatin overcoating atop the white baryta paper surfacing. In the past, the yellow hue was neutralized by adding a blue dye to the emulsion which compresses the gradation range and reduces the over-all brightness of the print image. The new fluorescence method increases the range of the paper, enhancing both the shadow and highlight detail. Naturally, the improvement is not as noticeable when prints are viewed by incandescent light which is weak in ultra-violet radiations. A by-product of the new manufacturing method is the modification of the sensitizing dyes to an extent where the yellow-green Series OA Wratten safelight is no longer as safe as heretofore: an OB safelight is now under development in England. So far, the improvement has not been incorporated in Kodak papers made in this country as far as we can determine.

Rolleiflex 2.8-C. As this issue of PHOTOGRAPHY magazine comes off the press, Burleigh Brooks, importers of the Rolleiflex camera, are about to unveil still another new and improved model of their renowned product. The debut of the Rolleiflex 2.8-C will take place at the 28th annual trade show and convention of the MPDFA which is being held at Chicago's Conrad Hilton Hotel the week of April 13. Although the outstanding feature of the new model is its brand-new 80-mm, *f*/2.8 Schneider Xenotar lens, it incorporates at least a dozen other design improvements and operating conveniences. A few of these were the result of suggestions based on American practice which had been forwarded to the manufacturers by the Burleigh Brooks Company.

The new Xenotar lens has a unique 5-element design. Only two of the glass elements are cemented together, thereby leaving three "air lenses" in the system. Computation of the Xenotar formula, which soon will be applied to other focal lengths than 80 mm, kept relays of optical scientists commuting between the Schneider factory in Kreuznach, Germany, and the site of one of Europe's most advanced "electronic brain" calculators in Switzerland. It permitted a job to be done in two years which in pre-war times took ten years to complete. The 80-mm, *f*/2.8 model is claimed to rival the sharpness and surpass the evenness of illumination of the finest *f*/3.5 lenses with which the Rolleiflex has been equipped. Our preliminary work with the camera tends to confirm this claim.

Among other new features of the Rolleiflex 2.8-C are: a safe, though readily actuated, double-exposure release; permanently installed Rolleikin (35-mm film adapter) exposure counter knob; snap-on neck-strap attachment; quick-lock tripod attachment disk; baffled camera interior to prevent internal reflections; over-size focusing knob with silver-on-black figures; friction locks on speed and aperture adjustment levers; adjustable focusing magnifiers to compensate for defects in users' vision, etc.

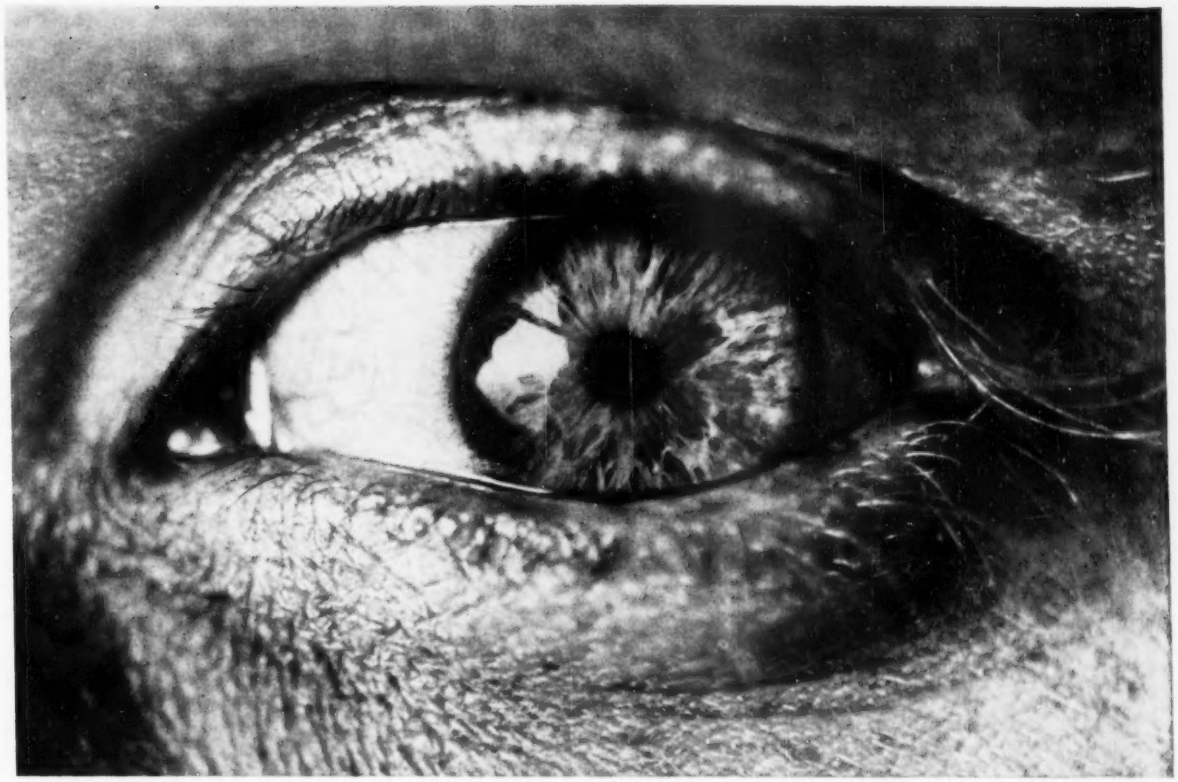


Rear view of new model with back opened shows: (1) baffled matte-black interior (2) silver-on-black figures on large focusing knob (3) built-in Rolleikin exposure counter (4) grooved tripod disk (5) springed film-roll retaining pin.

The 2.8-C model is priced at $385, complete (compared to $345 for the old-style *f*/2.8 model). The two *f*/3.5 models will be continued—at $265 for the Xenar-lens installation and $285 for the Tessar.

The two-bath print fixation system recommended by Kodak for the past ten years, for reasons of efficiency and chemical economy, is the subject of a recent paper by Crabtree, Henn, and Edgerton of the Kodak Research Laboratories, published in the February 1953 issue of *Photographic Science & Technique* (*PSA Journal*, Sec. B). Where a single-solution print fixing bath becomes exhausted after about 30, 8x10-inch prints have gone through it, the two-bath system can handle as many as 200, 8x10's in two one-gallon baths, after which the first bath is discarded, the second bath moved up to the No. 1 position, and a new second bath introduced. (The same ordinary fixing bath formula is used for both positions in the processing line.)

The published paper, entitled *Two-Bath*



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Type of Work	Lens of Short Focal Length	Lens of Standard Focal Length	Lens of Long Focal Length	Remarks
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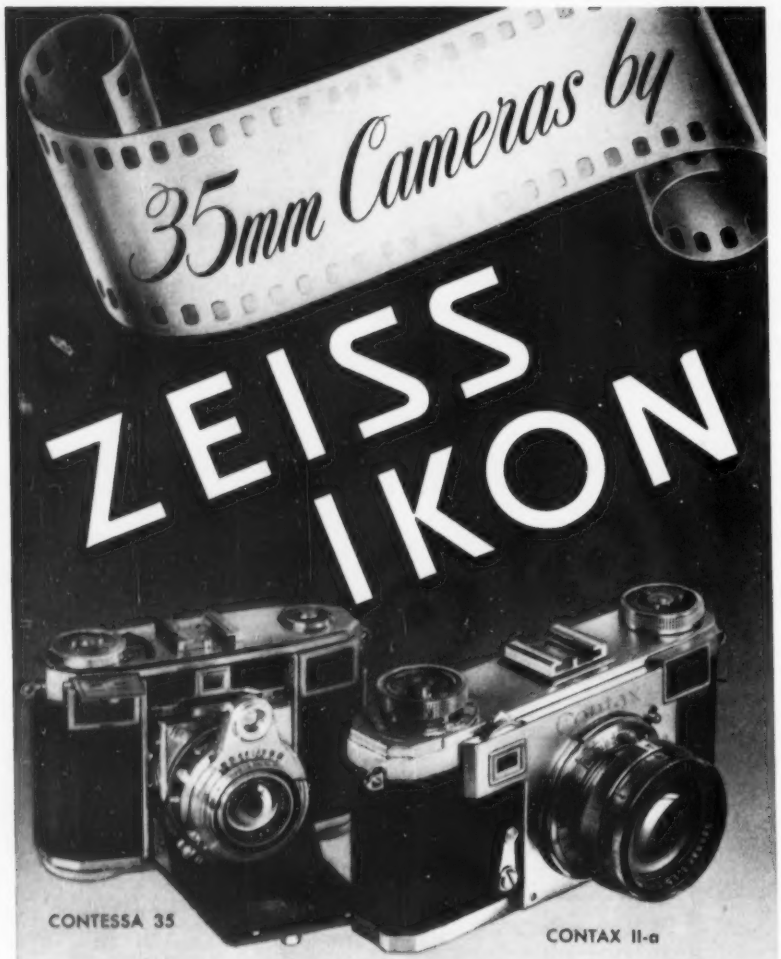
Technical	Summaron 35 mm Hektor 28 mm	Elmar or Summitar 50 mm	Elmar 90 mm	
Advertising	Summaron 35 mm Hektor 28 mm	Elmar or Summitar 50 mm	Elmar 90 mm	
Landscape	Summaron 35 mm Hektor 28 mm	Elmar or Summitar 50 mm	Elmar 90 mm	
Travel Pictures	Summaron 35 mm Hektor 28 mm	Elmar or Summitar 50 mm	Elmar 90 mm	
Reproductions	Summaron 35 mm	Elmar 50 mm	Hektor 135 mm	With fine-grain film
Sports	Summaron 35 mm	Summitar or Summarit 50 mm	Summarex 85 mm	In special cases also Hektor 135 mm Telyt 200 mm or Telyt 400 mm
Press Photography	Summaron 35 mm	Summitar or Summarit 50 mm	Summarex 85 mm	
Portraiture		Summitar or Summarit 50 mm	Elmar 90 mm or Summarex 85 mm	
Still Life		Elmar 50 mm	Elmar 90 mm or Summarex 85 mm	
Instantaneous Exposures in Artificial Light		Summitar or Summarit 50 mm	Summarex 85 mm	With high-speed films
Stage Photos		Summitar or Summarit 50 mm	Summarex 85 mm	
Interiors	Summaron 35 mm Hektor 28 mm	Elmar, Summitar or Summarit 50 mm	Summarex 85 mm	
Architecture	Summaron 35 mm Hektor 28 mm	Elmar 50 mm	Elmar 90 mm Hektor 135 mm Telyt 200 mm	
Nature Photography			Hektor 135 mm Telyt 200 mm Telyt 400 mm	



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Fixation of Prints, not only explores the mechanism of the two-bath system, but also determines the number of cycles that can be run before the solutions must be discarded. A number of other practical recommendations are also given. It is suggested, for example, that the solutions be discarded and the containers scrubbed out after 5 cycles have been run; also that prints can be transferred from the first fixing bath to the second in clumps, with a 5-second draining interval, without carrying over an "excessive" amount of silver into the second bath.

The advantages of two-bath fixation arise from the fact that silver-sodium thiosulfates (double salts) formed by the reaction of the hypo in the first bath and the undeveloped silver halides in the paper emulsion are made soluble and are washed out of the emulsion by the relatively silver-free second fixing bath. In a single-solution system, the silver content builds up rapidly, and the useful life of the fixer ends quickly, for the complex double salts are rendered so insoluble by the high silver content of the bath that they can't be properly removed from the emulsion by the final water wash. In other words, the second bath of the two-bath fixation system does a far better job than water of eliminating the double salts, which would stain the print if they were not removed. The final water wash merely removes the residual hypo in the paper base and emulsion.

Self-Threading Tank Reel. The first American developing tank equipped with self-threading reel (in the fashion of the British Paterson Major Tank, described in this department last July) was recently introduced here by Ansco. Priced at $4.95, the new Ansco tank features an adjustable reel with settings for all regular film sizes from 35 mm to 116 and 616. The manufacturer stresses "generous developer capacity" (ranging from 16 fluid ounces for the 35 mm adjustment to 28 for 116 and 616), in contrast to the solution-economy feature of the British

Film end is inserted under spring-loaded steel ratchets after groove entrances have been aligned. Film is pushed along spiral grooves of reel by rotating reel back and forth until the entire length of film is loaded.

tank. Still another unusual feature of the Ansco tank is the use of a transparent material in the fabrication of the top flange of the reel—to facilitate the "second exposure" of reveral type color films (Ansco Color and Ektachrome) without removing the film from the reel. The tank and reel are made entirely of plastic except for the polished stainless steel ratchets that hold the edges of the film in place during the loading.—▶

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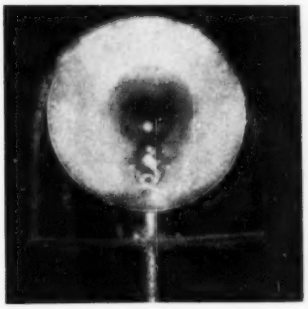

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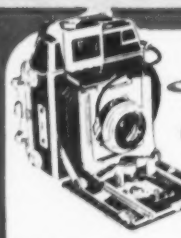

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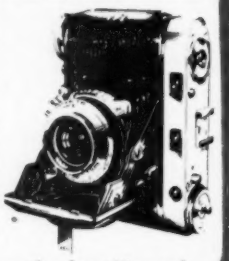

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Super Baldinette 35mm, with coupled rangefinder and a choice of two sharp-cutting Schneider lenses in M-X Compur-Synchro shutters with 9 speeds from 1 sec. to 1/500 sec. With Xenar f/2.8 lens **$109.95 Cash or $10.99 Down;** or with Xenon f/2.0 lens **$129.95 Cash or $12.99 Down.**

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ROBOT ★★ Star for motorized Photography!

Now equipped to take standard 35mm cartridges, the Robot-Star — with its unique range of accessories — opens new horizons for the amateur and for photography in industry and science. You wind the Robot-Star's built-in motor like a watch, then take up to 24 shots, singly or in rapid-fire sequence. When you press the release, motor automatically resets shutter and moves film, for the next shot. Shutter speeds range from ½ sec. to 1/500 sec. Other Robot-Star features include built-in M-X synchronization, 3 built-in viewfinder systems (straight eye-level, right-angle and chest level) . . .

Robot-Star without lens $141.50 Cash or $14.15 Down.

Robot-Star with Schneider Xenar 38mm f/2.8 lens $217.50 Cash or $21.75 Down.

Robot-Star with Schneider Xenon 40mm f/1.9 lens $249.50 Cash or $24.95 Down.

(For Robot-Star Camera with special Double Spring Motor for up to 50 exposures without re-setting motor, add **$28.50 Cash or $2.85 Down** to prices indicated.)

Robot-Star Accessories

All available on D. F. A.'s 10% Down plan, with balance in installments to suit your own requirements.

Schneider Xenagon 30mm f/3.5 wide angle lens	$99.50
Schneider Tele-Xenar 75mm f/3.8 telephoto lens	$110.50
Schneider Tele-Xenar 150mm f/4.5 telephoto lens	$157.50
Universal Finder	$42.50
Electro-Magnetic Remote Release	$32.50
Electro-Magnetic Series Release	$39.50
Microscope Attachment	$150.
Underwater Housing	$295.
Stereo Attachment	$32.50
C.O.C. BC Flash Unit	$15.50
Eveready Carrying Case	$13.50

Schools and Industrial Users . . .

Please write Industrial Division, Dowling's Fifth Avenue for special quotations and assistance with your individual program! Informative Robot brochure and comprehensive price list are yours free on request to Dowling's Fifth Avenue.

Dowling's Fifth Avenue is MINOX Headquarters . . .

This little gem, the **Minox III** Camera, delivers maximum performance with truly minimum size. Weight is only 2½ ounces, and it measures just 3" in length! The Minox III is for you, whether as an only camera or as an "extra" to be conveniently tucked in a corner of your pocket; always ready for that unexpected shot.

Shutter speeds range from ½ sec. to 1/1000 sec., with chronometer-like reliability. The f/3.5 lens is finely designed and excellent in performance. Shutter winding and film transport are simultaneous. Focusing is from 8" to infinity, with automatic parallax correction. Contains 2 built-in filters. Takes daylight loading film: 50 exposures on black and white or 24 exposures on color. Including leather case and chain **$129.50 Cash or $12.95 Down.**

Selected Minox Accessories and Film

Minox Exposure Meter with Case and Chain (as illustrated)	$27.95
Minox Slide Proector	$30.95
Black and White Film (2-50 exposure cartridges per box)	$2.02
Color Film (per 24 exposure cartridge)	$1.25

Minox III Enlarger. Minox film is processed by Dowling's Fifth Avenue, or you may prefer the thrill of making your own enlargements. For a full measure of enjoyment from your hobby, the Minox enlarger is the answer. Provision for enlarging up to 11 x 14 on the baseboard; easy film insertion; automatic self-locking head; and rheostat control for regulating focus with various negative densities make this instrument the ideal companion-piece for your Minox III Camera. The enlarger is priced at **$175. Cash or $17.50 Down.**

Detailed MINOX literature free on request!

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Indisputably, the Rollei is the world's finest camera of its kind. Just as surely, as the "2.8C" is the finest camera to bear the Rollei name. Tried and tested Rolleiflex quality has been combined with these important new built-in features:

✓**Special crank release** for intentional double exposures

✓**Automatic arresting slides** on speed and diaphragm control wheels to prevent inadvertent shifting ✓**Film speed reminder** ✓**Adjustable magnifiers** for critical focusing ✓**Special counter knob** for use with 35mm adapter . . . plus many other significant improvements.

These are all valuable additions to a worthy product. Yet, we are confident that the brilliant new XENOTAR 5-element f/2.8 lens is **alone** news exciting enough to make real photographic history for the year 1953. The Xenotar is the product of a basic and ingenious change in optical construction.

Without hedging — and to state it plainly — we believe that you will agree that the performance of the Xenotar is unsurpassed. And D.F.A.'s 30 Day Trial-Refund privelege backs this statement to the hilt. The Rolleiflex 2.8C is bound to be the most sought after instrument in the fine camera field.

Supply is limited. Play it safe: Airmail, wire or phone your order to Dowling's Fifth Avenue today!

$385.00 Cash or $38.50 Down

In addition to the Rolleiflex 2.8C, there are the distinguished 1953 Rollei f/3.5 models, which of course retain their traditional perfection and up-to-date high standards of performance. In buying a Rollei, select a model to suit your own requirements. Each is a leader in its class.

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Rolleiflex with Schneider Xenar f/3.5 lens **$265.00 Cash or $26.50 Down**

Rolleiflex with Zeiss Tessar f/3.5 lens **$285.00 Cash or $28.50 Down**

Dowling's Fifth Avenue delivers each Rollei as a factory packaged, guaranteed unit, **complete** with dual lens cap, cable release and deluxe eveready carrying case.

1953 Exakta VX

Exakta VX with Zeiss pre-set lenses and waist-level finder as standard equipment: Tessar f/2.8 **$269.50 Cash or $26.95 Down**; Biotar f/2.0 **$343. Cash or $34.30 Down.** Angenieux 50mm f/1.5 lens **$375. Cash or $37.50 Down**; VX with Penta Prism with NEW built-in Rangefinder: Biotar 58mm f/2.0 **$400. Cash or $40. Down.** Biotar 75mm f/1.5 **$450. Cash or $45. Down.** Angenieux 28mm Retrofocus f/3.5 wide angle lens **$120. Cash or $12. Down.** Magnear **$25.50 Cash or $2.55 Down.** Write D. F. A. for free Exakta brochure and price list!

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Complete with 3 top Kern (Swiss) lenses — Switar 25mm f/1.4, Yvar 16mm f/2.8 and Yvar 75mm f/2.8 — and fitted leather compartment case . . . **$712.50 Cash or $71.25 Down.** Bolex H-16 Leader with Lytar 25mm f/1.9 lens **$299.50 Cash or $29.95 Down.** Bolex Stereo System **$397.50 Cash or 39.75 Down.** Pan Cinor Variable Focal Length Lens **$447.50 Cash or $44.75 Down.** Bolex Titler and Special Effects Kit complete **$295.50 Cash or $29.55 Down.**

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Superlative 2¼ x 2¼ single lens reflex with crisp Ektar f/2.8 lens **$499.50 Cash or $49.95 Down.**

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candid shots by the Editors

Men Under Water

Problem: make an underwater shot of a submarine firing a torpedo. What would you do if you were given this assignment? Buy a diving suit? Rent a glass-bottomed boat? Or sell your camera to the highest bidder? *Life's* J. R. Eyerman, a photographer who calmly takes such assignments in stride, used a diving bell and a remote-control camera. You'll see this, and other remarkable Eyerman pictures in the eight-page feature starting on page 44. Another solution to the problem of underwater photography was found by Capt. J. Y. Cousteau, author of the book *The Silent World*. Cousteau turns himself into a free-swimming frogman with the aid of a portable breathing apparatus called an "aqualung." Thus equipped, he becomes a candid cameraman of the deep, shooting intimate close-ups in black-and-white of sharks, sunken galleys, and coral grottos. His recently-published book includes a still from an underwater movie of a torpedo. However, Eyerman's picture is a difficult and dramatic long shot that includes both sub and missile at the moment of firing. Among his other achievements, Eyerman master-minded the research of *Life's* color lab into ways of speeding up Ektachrome emulsion. The success of this project opens up new fields for photojournalism in color. The process has now been perfected to the point where any *Life* staffer can shoot color film at an exposure index of 50 instead of 8—and be reasonably sure of good results! Exclusive in this issue of PHOTOGRAPHY, Eyerman explains the entire process in step-by-step detail. And as for *The Silent World*, you'll find a review of it in the *New Books* column.

What's Your Hobby?

A man named Gordon Hendrickson of the University of Cincinnati, who has made an exhaustive study of the matter, reports that a good hobby has eight characteristics:

1. It should involve a tangible product that can be admired by others.
2. It should fit the individual's age and circumstances.
3. It should have a group of devotees in whom can be found social contacts, recognition, and acceptance.
4. It should be difficult enough to challenge the skill, but not too difficult to prevent some success.
5. It should further and not interfere with family life.
6. It should not interfere with the vocation.
7. It should be the hobbyist's servant, not his master.
8. It should have possibilities for growth and continued interests throughout the years.

So far as we know, Hendrickson holds no brief for any one particular hobby, but it strikes us that he might have written these lines specifically about photography.

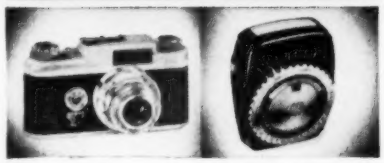
Police Censorship

In the mail the other day came a clipping from the Memphis *Commercial Appeal*, beginning, "A free-lance photographer who took (*Continued on page* 213)

Amateurs Shoot PHOTOGRAPHY'S Models at Photo Show

PHOTOGRAPHY'S booth at this year's annual National Photographic Show in New York's Grand Central Palace looked like this for five days, nine hours a day, as thousands of amateurs fought to get good shots of models like this. Best pictures will get prizes.

Olden



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F2.8 ctd. Rfdr. Synchro shutter. E. R. case.
LIKE NEW **$64.00**

General Electric
P.R.I. Exp. meter incident Light Att. Dem.
NEW **$21.45**
G. E. DW68 ..... $16.00

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B & H, Model 220	$ 49.50	.....
B & H Companion, F2.5	79.95	$ 46.50
B & H Auto-8, 172-B, F2.5	134.95	86.50
B & H Auto-8, 172-A, F2.5	164.95	109.00
Bolex L-8, F2.8	97.00	51.50
Bolex H-8, Leader F1.9	291.50	168.00
DeJur Citation F2.5	77.50	42.50
DeJur Mag. 8, F2.5	106.95	59.00
Keystone Olympic, F2.5	78.00	47.00
Kodak Brownie, F2.7	43.30	28.00
Kodak Magazine 8, F1.9	150.95	87.50
Revere 50, F2.8	49.50	27.00
Revere Ranger, F2.5	74.50	44.00
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Revere 84, Turret, F2.8	112.50	.....
Revere B-61 Mag. F2.5	112.50	72.50
Revere B-63 Mag. F1.9	157.50	96.75

16MM CAMERAS

B & H Mag. 200, F2.5	179.95	118.50
B & H Mag. 200-T, F1.9	247.95	168.00
B & H Auto-Load, F1.9	129.50	92.50
B & H Auto Master, Turret F1.9	172.50	118.00
B & H Filmo 70-DL, F1.9	364.95	248.50
Bolex H-16, Leader, F1.9	299.50	168.00
Bolex Stereo attach. w/Kit	397.50	
Cine Special II, Ektar F1.4	1053.35	695.00
Cine-Kodak Mag. Royal F1.9	176.25	118.00
Cine-Kodak Mag., F1.9	.....	76.50
Keystone A-7, F2.5	76.50	36.50
Keystone A-12 Turret, F2.5	119.50	73.00
Revere Mag. 16, F2.5	157.50	94.00
Revere Mag. Turret, F1.9	212.50	118.00
Pathe Super 16, 3 Lens Turret	395.00	278.00

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DeJur 750 W, Case	159.50	96.50
DeJur 1000 DeLuxe, Case	177.50	112.00
Keystone K-109-V, Splicer, Viewer	169.50	108.00
Keystone K-68, 750W	114.50	62.00
Keystone K-108, 750W	139.50	82.00
Kodak Brownie, Case	62.50	.....
Revere 85, 500W, Case	124.50	66.00
Revere 90 DeLuxe, 750W, Case	159.50	89.50

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Revere Sound Projector	325.00	189.00
B & H Filmosound 285-C	449.95	289.00
B & H 202, Magnetic Sound	699.95	458.00
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Kodak Pageant Sound	400.00	276.00

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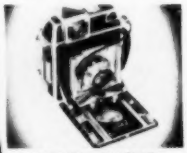
Latest, 'MX' synch. uses standard cartridges.
BRAND NEW **$45.00***
and your Robot in trade
*pending inspection



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3-Section Tripod with pan head.
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Bolsey B-2, F:3.2 ctd. Synch..	73.50	46.00
Canon, Serenar f:1.8, Rfdr....	295.00	194.00
Contessa 35 Tess 2.8 RF S[illegible]	214.00	118.00
Exa Camera, F:2.9 ctd.....	99.50	61.00
Iloca II, F:3.5, Rfdr. Sy[illegible]	49.5[illegible]	.....
Kodak 35 Rfdr. F:3.5.....	86.7[illegible]	28.00
Kodak Pony 135, F[illegible] ctd..	35.7[illegible]	24.00
Kodak Signet, Ektar 3.5 Rfdr..	92.50	57.00
Mercury II, F:2.7.....	41.50	21.00
Nikon, F1.4 ctd. RF.....	349.00	2[illegible].00
Praktica FX, Biotar F:2 ctd....	109.50	.....
Rectaflex, Xenar F:2.....	295.00	168.00
Retina II Xenar F:2.....	.....	79.00
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Revere Stereo F:3.5 ctd. Rfdr..	17[illegible]	.....
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Stereo Realist F:3.5, Rfdr.....	189.50	[illegible].00
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Kine Exakta I Tess F:3.5.....	.....	[illegible]
Kine Exakta II Biotar F:2.....	.....	[illegible]
Kine Exakta V Tess. F:3.5.....	.....	[illegible]
Kine Exakta V Biotar F:2.....	.....	179.00
Kine Exakta VX, Tess. F:2.8...	269.50	186.00
Kine Exakta VX Biotar F:2....	343.00	234.00
35mm Retrofocus F:2.5 W.A...	99.50	62.50
40mm Tessar F:4.5 W.A.....	99.00	49.00
40mm Cassaron F:3.5 W.A...	49.50	33.00
58mm Biotar F:2 pre-set.....	170.00	93.50
75mm Biotar F:1.5.....	216.50	118.00
85mm Steinheil F:2.8.....	68.00	49.50
90mm Angenieux F:1.8.....	149.50	108.00
135mm Xenar F:4.5.....	58.95	39.00
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Contax [illegible]	.....	[illegible].50
Contax [illegible]	.....	112.00
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[illegible] Reflex, [illegible]	.....	128.00
XM [illegible]	265.[illegible]	167.00
XM [illegible] F:3.5	[illegible]	189.00
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DeJur 4x5 F4.5.....	172.50	118.00
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Federal 2 ¼x3 ¼ F6.3.....	39.75	24.00
Federal 35mm F4.5.....	49.95	32.00
Federal 4x5, F:6.3.....	88.95	59.00
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Omega B4, 2 ¼x3 ¼.....	99.50	68.00
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WHAT CAMERA FOR YOU?

TWO FACTORS will determine the choice of your next camera: the kind of work you want it to do, and the amount of money you can spend for it. You've already made photographs—perhaps only with a box camera, maybe with a battered ancient "good" camera. You are already aware of its limitations for your own special needs. This article is intended to set before you honestly and systematically the characteristics of the five general types of cameras—their advantages and disadvantages, their special applications, and examples of the kind of photograph each makes best. No brand names are mentioned here, but you will have no difficulty in recognizing each type in the Directory section of this issue. We have excluded from consideration cameras of the fixed-focus type, and those with lenses slower than *f*/6.3. Prices of good new cameras range from under $30 to about $550. Quotations are approximate, and based on current list prices; good used cameras are obtainable at lower prices.

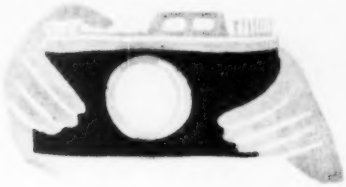
Almost any kind of picture can be made with any type of camera—but often with considerable difficulty and with uneven results. There is no ideal camera for everybody, but there *is* an ideal camera for you. This article will help you find it.—▶

If you own any kind of camera now, you're probably looking forward to buying a better one some day. This outline of the five basic camera types will help you decide which can do the best job for you

By GEORGE GILBERT

DETAILED INFORMATION ABOUT INDIVIDUAL CAMERAS ON DIRECTORY PAGES 80-103 IN THIS ISSUE

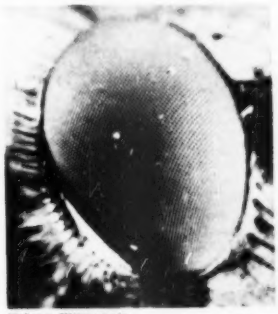
35 mm?



FAST LENSES, small size, and low film cost characterize these mighty midgets of the camera kingdom. Normal film load is 36 exposures, but there are 20-exposure cartridges too. Short-focal-length lenses (normally 50 mm) give great depth of field. Some of the cameras are compact enough to slip inconspicuously into a pocket, but most are carried in eveready cases, handy for fast shooting. Working at eye-level, they see what the eye sees. Their wide lens apertures make them tops for available-light photography. They make standard 2x2 color slides. Some of the best-known names in 35-mm photography are Henri Cartier-Bresson, Leonard McCombe, and W. Eugene Smith. Prices of cameras in this category range from $30 to more than $530.

COLOR FILMS AVAILABLE: Kodachrome Daylight & Type A, Ansco Color Daylight & Tungsten.

ADVANTAGES	DISADVANTAGES
Compactness	*Enlargements usually necessary*
Extreme depth of field	*Retouching of film impractical*
Interchangeable lenses	*Meticulous darkroom care needed*
Economical film cost	*Inconvenient for few-at-a-time shooting*
Adaptability to special uses	
Large film loads	
Fastest lenses	



Helmut Wildenhain

Fly's eye seen by 35-mm camera through extension tube with reflex housing. This illustrates special application of miniature camera to scientific work. Below, candid shot made on New Year's Eve in Times Square shows how a fast *f*/1.5 lens enables shooting in very poor light.

John Calvin Orr

continued

Single-lens reflex?

ADVANTAGES	DISADVANTAGES
Exact picture on groundglass	*No distortion corrections*
Parallax impossible	*Difficult focusing in weak light*
Depth of field visible at any stop	*No view of scene at instant of exposure*
Interchangeable lenses	
Adaptability for special uses	

THESE ARE THE ONLY cameras that let you see the *exact* picture you will get before you snap the shutter. This is because they avoid even the slightest parallax (discrepancy of field between viewfinder and taking lens). The image you see in the groundglass is projected by the taking lens itself upon a mirror which flips out of the way an instant before the exposure. Interchangeability of lenses in most models makes them adaptable to varied photographic problems. One camera of this type is preferred by many newsmen for telephoto sports work. Tana Hoban and Morris Gordon are among the famous names associated with single-lens reflex photography. Size and weight factors vary widely, according to film size. Prices range from about $60 to $500.

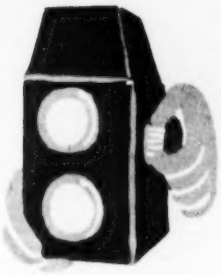
COLOR FILMS AVAILABLE: Miniature types: same as for 35-mm cameras. Roll-film types: same as for folding roll-film cameras. Sheet-film types: same as for press and view cameras.

Walter Chandoha

Paramecia were shot through microscope with attachments furnished with 35-mm one-lens reflex. Left, cat portrait shows how larger reflex gets sharp definition and selective focus. Below, sports-action shot illustrates popularity of this type with long-focus (15-inch) lens for shooting from sidelines. Motion stopped at 1/1000 sec.

Neil P. Clemens

Twin-lens reflex?



ADVANTAGES	DISADVANTAGES
Groundglass focusing and composing	*Parallax at close distances*
Eye-level, waist-level, or open-frame image finding	*No interchangeable lenses (usually)*
Square format; no turning for horizontal or vertical pictures	*Difficult focusing in very weak light*
Image visible at instant of exposure	*Depth of field cannot be observed directly*
Contact prints large enough for inspection	

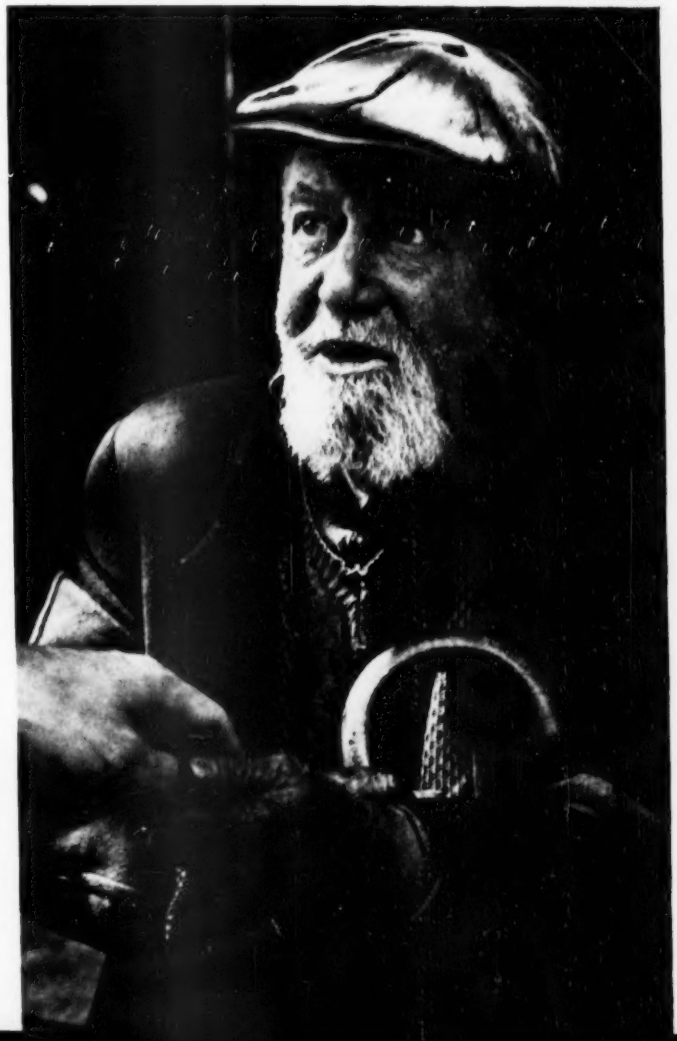
COMBINING DIRECT groundglass focusing with ability to see the subject at the instant of exposure, these cameras have enjoyed increasing popularity in recent years. Contact prints from the 2¼x2¼-inch negatives are large enough for inspection. The cameras are extremely versatile, but lack refinements like interchangeable lenses (with one exception) and distortion corrections. There is a parallax problem, most pronounced at close distances. Film is of the commonest size, available everywhere in a wide variety of emulsions. For some models there are 35-mm adapter backs, making possible standard 2x2 color slides. Waist-level viewing makes low-level shots easier. Some users feel groundglass viewing gives a truer idea of the finished picture. Some well-known users of the twin-lens reflex type are Philippe Halsman, Fritz Henle, and Richard Avedon. Prices of these cameras range from $40 to over $350.

COLOR FILMS AVAILABLE: Ektachrome Daylight & Type B, Kodacolor Daylight & Type A, Ansco Color Daylight & Tungsten.

Paul Schutzer

Lady's plight was photographed from child's-eye-level with twin-lens reflex which is normally held at waist height. Right, adaptability of this type to unobtrusive, candid work is demonstrated by this characteristic off-guard shot of an indigent getting aid.

Ted Polumbaum



continued

Folding roll-film?

ADVANTAGES	DISADVANTAGES
Compactness; folding construction	*No interchangeable lenses*
Simplicity of design for ready use	*Overall lack of versatility*

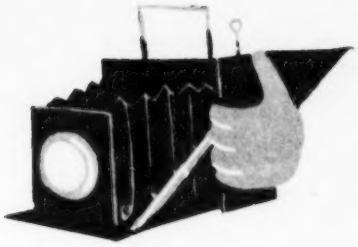
IN THE TOURIST'S luggage, in the coat pocket, in the picnic basket, there's likely to be a camera of this popular type. The typical folding camera is light and compact, and designed for ease and speed of operation. All these characteristics make it the choice of the traveler for whom space is at a premium and the family photographer who wants a camera always at hand and easy to operate. Such folding cameras were used by Edward Steichen for his famous studies of Isadora Duncan, and by Arnold Genthe for reportage of the San Francisco earthquake. Most popular are the 2¼x3¼ sizes, many of which offer a choice of 8, 12, or 16 pictures to a roll. Contact prints are large enough for the family album. In general, lenses are not interchangeable, and slip-on lenses are required for extreme close-ups. At the same time, the better models of this type are equipped with excellent lenses—as might be expected, since prices run to nearly $300. (They begin under $30.)

COLOR FILMS AVAILABLE: Ektachrome Daylight & Type B, Kodacolor Daylight & Type A, Ansco Color Daylight & Tungsten.

Masayoshi Nakamoto

Tree tracery, left, exemplifies sharpness of good lens on high-priced folding roll-film camera. Above, typical family-album picture made with less-expensive model of same general type. These easy-to-use cameras make fine snapshots and are equally adaptable to salon photography.

Press and view?



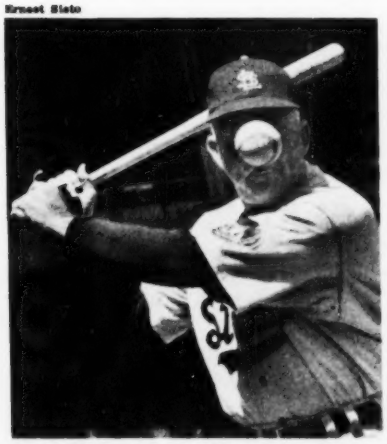
WORKHORSES of the professional photographer, both in and out of the studio, these cameras have maximum versatility and adaptability to the whole range of photographic work. They are the only type of camera with full distortion correction, and all have interchangeable lenses. Negatives are large, easily handled in the darkroom, and easy to retouch. Film cost may be discouraging to the non-professional; a single sheet of 4x5 black-and-white costs about ten cents, and color film of the same size about a dollar, including processing. The size and bulk of these cameras make them a burden to carry, and the larger ones can be used only on a tripod. The press type is the preferred camera of most news photographers. Berenice Abbott, Edward Weston, and Ansel Adams are among the illustrious users of the view type. Prices in this group range from about $100 to $450. (One model sells for $30, without lens.)

COLOR FILMS AVAILABLE: Ektachrome Daylight & Type B, Ektacolor Negative Type B, Ansco Color Daylight & Tungsten. With adapter (press types): same as roll-film.

ADVANTAGES	DISADVANTAGES
Groundglass focusing and composing	*Film costly*
Interchangeable lenses	*Bulk and weight a factor*
Long bellows permit extreme close-ups	*Many require tripod*
Distortion corrections	*Relatively slow operation*
Ease of retouching negatives	*Film holders bulky; handier film packs more costly*
Wide application to many types of photography	
Single sheet of film can be exposed and developed	

Jack Fields

Ernest Sisto

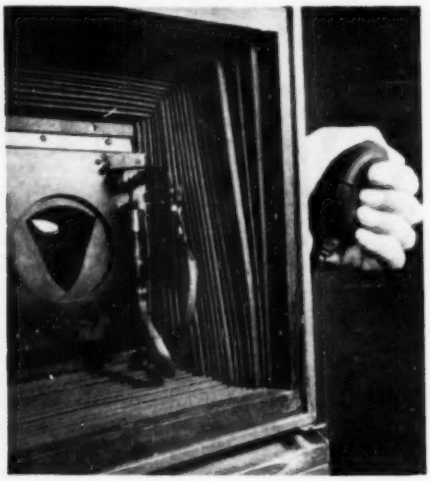


Baseball-nosed Rogers Hornsby was caught during batting practice with 4 x 5 press-type camera. Right, vertical lines in buildings were kept parallel by use of view camera's distortion correction. With 12-inch lens, aperture of *f*/22 gave sufficient depth of field here.

Frank Powolny gets high angle shot of Debra Paget. Camera stand has been altered to permit such lofty angles.

Quick-set aperture control (top of camera) allows iris to be stopped down to pre-set opening from behind camera. Flashgun adds fill.

Flash synchronizer is built into Packard shutter. Micro-switch is activated by rising plunger when shutter is at its peak opening.



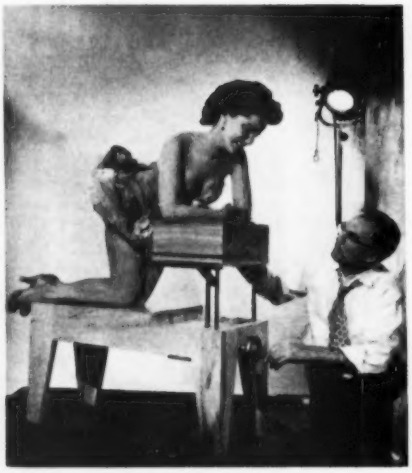
GLAMOUR GADGETS

Short-cut gimmicks help Hollywood's still-men shoot stars at their glorious best in minimum time. Here Frank Powolny demonstrates with 20th Century-Fox's Debra Paget

By LOUIS HOCHMAN

Photographs by FRANK POWOLNY and the Author

Heavy disk (adapted from automobile flywheel) holds camera rock-steady when Powolny shoots Debra from floor.



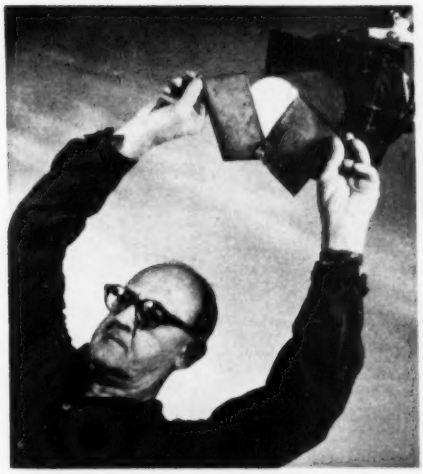
Ingenious posing stool has rising-falling section controlled by gear mechanism which helps put Debra in effective taking position.

Turntable platform allows model to be rotated to any angle quickly. Here Clint Urtubees, assistant, shows mechanism to Miss Paget.

Easily adjusted telescoping-pipe support saves much time when Debra's pose requires elbow rest. Prop is draped before shooting.

Tipped-over chair and background drape (left) add up to an unusual glamour setting for Debra. Variation on the theme comes (below) by shifting chair position so that quilted material adds counterpoint.

WHEN HOLLYWOOD still photographers focus their lenses on the cream of cinema's glamour, they have little time to revel in the beauteous aspects of their chosen destiny. Take Frank Powolny or Gene Kornman of 20th Century-Fox's still department, for instance. Betty Grable, Susan Hayward, Jean Peters, Marilyn Monroe, Debra Paget, and others of similar caliber pass through the portals of their modest little portrait gallery, but to these crack glamour photographers, this endless parade of beauty means only one



Novel light shields, attached to front of spotlight's snoot, are pivoted to throw V-shaped beam to highlight Debra's graceful contours.

Time-saving glamour gimmicks galore are here: posing stool, revolving platform, quick-shift portable backdrops, and V-light adapter. Crumpled cellophane behind Debra gives shimmering background effect.

thing—rush work! Time on a studio lot is measured in king-sized dollars and the pressure to turn out a maximum of art in minimum time is probably greater here than in any other field of commercial photography—and it must be art! There is little room for error where such error might run into three digit costs and lose the studio its only chance to get sorely needed pictures of some elusive personality.

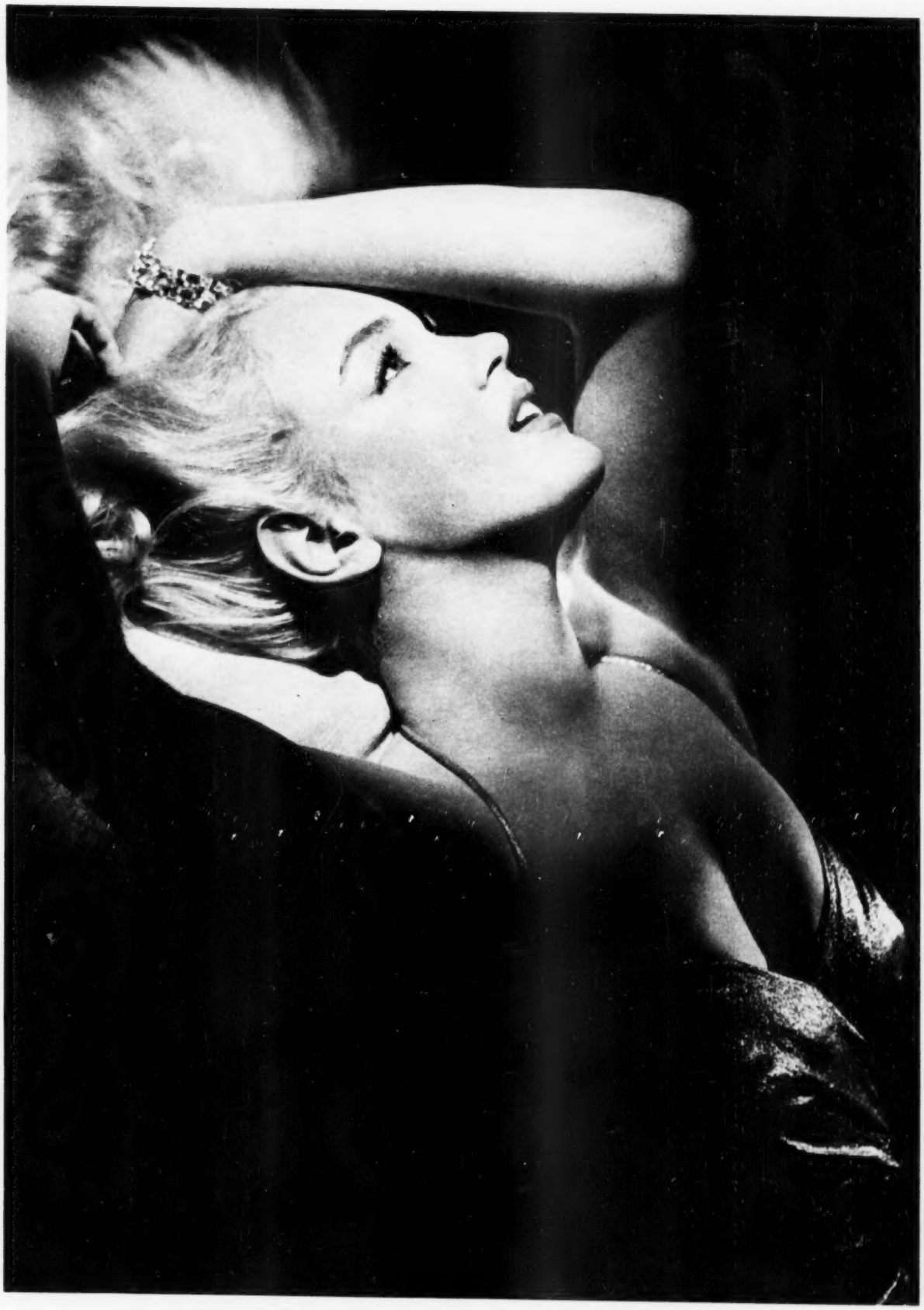
Working under such strain generally causes one to cast about for means of relieving much of the pressure, and these boys of 20th Century-Fox are wizards at pushing their talents above and beyond the call of duty. Over a period of years, they have devised all sorts of gadgets and gimmicks to make their work easier, faster, and better. For a better appreciation of the streamlined shooting procedures in this department, let's look in on a typical day with Frank Powolny, his assistant, Clint Urtubees, and their subject, gorgeous Debra Paget, star of such recent cinemas as *Les Miserables,* and *Stars and Stripes Forever.*

Initial request is for large head-and-shoulders portraits of Miss Paget, so Powolny seats (*Continued on page* 202)

→

Dramatic concentration of light on Marilyn Monroe's features was controlled easily with the V-mask placed over spotlight's snoot.

Anne Francis' flowing lines take on an aura of alluring curves as Powolny deftly poses her on a huge divan and arranges light accents.

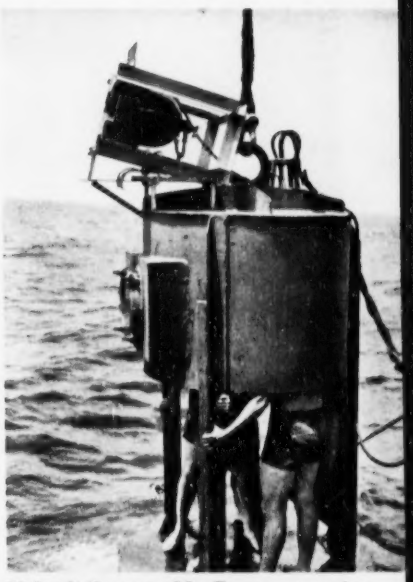


EYERMAN

PHOTO-JOURNALIST FOR AN ATOMIC AGE

A man who thrives on tough assignments, this Life photographer uses robot hands and electronic brains to take pictures that couldn't be made

Photographs courtesy of *Life*, © Time, Inc.



Diving bell was used by Eyerman to make remarkable underwater shot, left. Notice camera bolted above bell's single porthole.

WHENEVER *Life* editors need an impossible-to-get picture they are likely to assign the job to J. R. Eyerman, a man who has pushed the frontiers of photography into exciting new realms. Eyerman, an engineer turned photographer and a technical wizard with creative vision, is probably best known for his remarkable pictures in color and black-and-white of exploding A-bombs, faster-than-sound jet planes, and soaring rockets. The product of a super-sonic, atom-powered age, he symbolizes the wedding of modern science to photo-journalism.

He believes in making full use of electronic brains and robot hands to help him get his pictures. In his own words: "You become a photographic illiterate if you blind yourself to methods or means that will say what you want to say more clearly and emphatically."

Many of the subjects he photographs move far too fast to

Like an evil fish, a sleek, 1½-ton torpedo leaps from the forward tube of a U.S. Navy submarine. White blobs are air bubbles escaping from bell.

By ARTHUR A. GOLDSMITH, JR.

Undersea warfare provided Eyerman with dramatic action shots in the strange half-world a few fathoms down. Below left, a Navy frogman emerges from escape hatch on deck of submerged sub. Bottles on back contain enough oxygen for 1½ hours. Below, four silent, eerie figures swim towards underwater camera like creatures in a nightmare. Right, frogmen snip mine cables with huge shears. Bottom right, frogman gulps fresh air greedily after a workout below. How did Eyerman make these unusual photos? For answer, see picture and caption, bottom left.

Camera was bolted to sub's deck facing the escape hatch. Eyerman rode a tender overhead while sub dove, then peered down through clear water and fired camera by a remote-control shutter release.

be caught by mere human reflexes. And many are in such remote or dangerous locations that no human photographer can get within shooting range. How Eyerman solves these problems makes a fascinating story: if the assignment calls for a new technique he'll devise one; if it requires a new camera or Rube Goldberg timing devices he'll build them.

As a result of such ingenuity, energy, and perseverance Eyerman has scored an impressive number of photographic scoops including the first underwater shot of a submarine firing a torpedo, a unique mirror portrait of an atomic blast, and pioneer use of high-speed color. *(See page 50 for Eyerman's detailed account of* Life's *secret process for speeding up Ekta-*

chrome from an exposure index of 8 to 50.)

Eyerman—"Jay" to his friends—is a big, husky man with a friendly grin, a weather-lined face, and an unruffled manner. A westerner by birth and upbringing, he works with *Life*'s Los Angeles bureau, although assignments may take him anywhere in the world. He has a small boy's passion for gadgets and gimmicks but hates to be pegged as a "technical photographer" only. He says:

"I don't believe that techniques are ends in themselves. I would quarrel with any photographer whose pictures stressed technique to the detriment of ideas."

His genius for photographing the impossible is shown by a memorable picture story on undersea

Hybrid cameras are Eyerman's own inventions. Above, he looks into the viewing hood of a Graflex D with a K-24 aerial camera back (trips shutter electrically) and telephoto lens. Top, Rolleiflex is equipped with four sets of interchangeable lenses and Ikoflex viewing screen.

EYERMAN continued

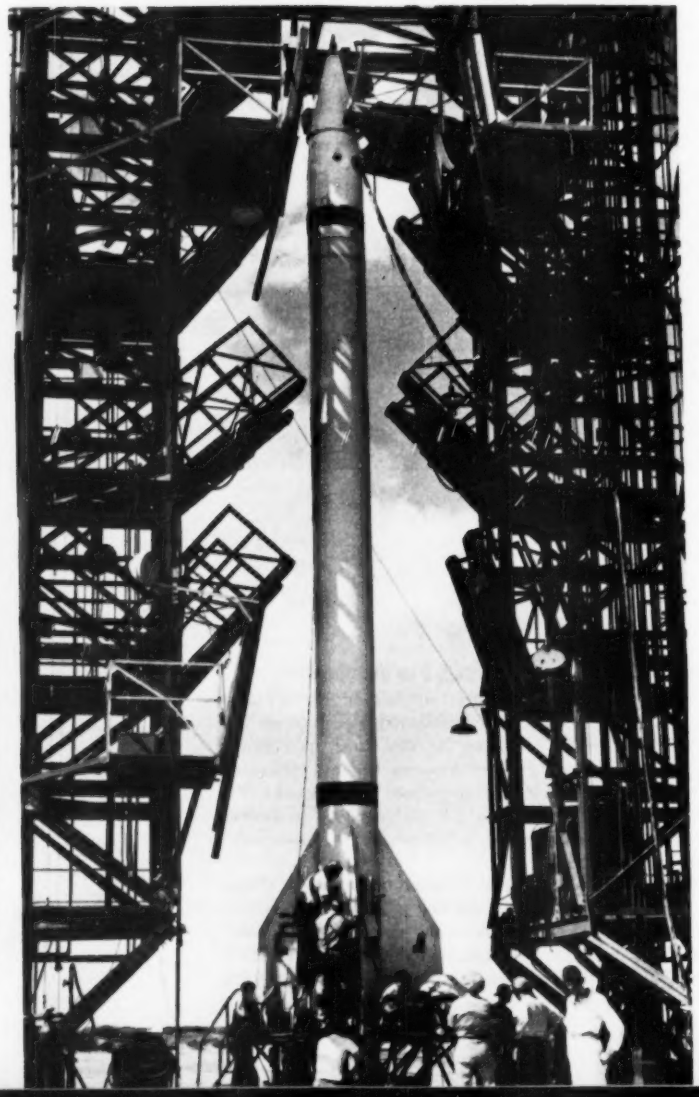
weapons and warfare. This story, which received lavish 13-page treatment in the Dec. 10, 1951 issue of *Life*, was the result of two months' intensive shooting in close cooperation with the Navy. Eyerman visited naval bases from New London, Conn., to Key West, Fla.; rode in blimps, airplanes, helicopters, surface vessels, submarines, and even a diving bell.

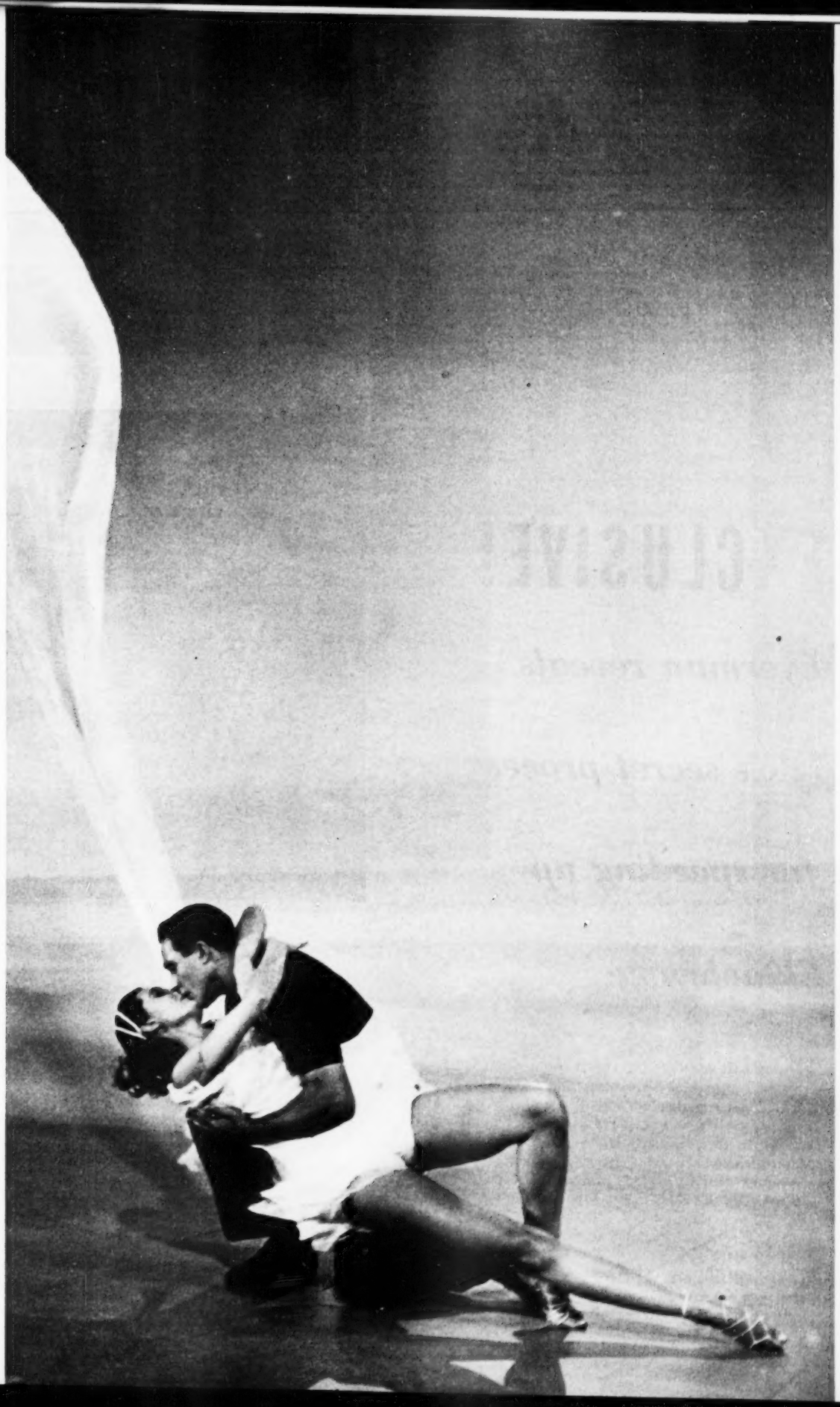
Every picture story needs a "keynote" shot that sums up the theme in one smash photo. The editors knew what they wanted in this case: nothing less than a dramatic, underwater view of a submarine firing a torpedo. But Navy experts shook their heads. Underwater photography is limited to a shooting range of a few yards; *Life*'s keynote picture

→

Torrid kiss between Cyd Charisse and Gene Kelly was photographed on set of *Singing in the Rain*. (Five wind machines created the gust that floated the 100-foot veil.) Versatile Eyerman often covers Hollywood as well as atomic explosions.

Convex metal mirror gives wide-angle view of atom blast. Eyerman photographed the mirror reflection with a telephoto lens to magnify the fireball. Right, technicians ready a giant Viking rocket for launching.





would require a visibility of about 200 feet, or even more.

Undiscouraged, Eyerman headed for the Florida Keys, where, he hoped, the ultra-clear water would permit long-range shooting. He brought along three underwater cameras, including a Navy model and one of his own design. Reported Ed Kern, a *Life* writer who accompanied Eyerman, "The biggest problem so far has been the cameras. The big underwater camera the Navy furnished did not work so Jay had to take it to pieces and put it together again. It works now."

Eyerman carefully figured out the most effective camera angle with the aid of a model submarine. Then the *Life* team went down in a diving bell with a camera bolted to the top directly over a single porthole. The trick was in twisting the bell around so that this porthole pointed at the submarine floating underwater nearby. When Eyerman and Kern could see the sub through the porthole they knew the camera was lined up ready to shoot.

Communication lines connected the bell to a tender floating 50 feet overhead, and to the submarine's fire control room. The signal for firing was to be a count of ten down to zero. When Eyerman sighted the torpedo he could trip his shutter by remote control. It all sounded easy enough.

The first two attempts ended in failure because of poor visibility and choppy water. For the third try they went out to the deep, clear waters of (*Continued on page* 75)

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EXCLUSIVE!

Eyerman reveals

Life's *secret process*

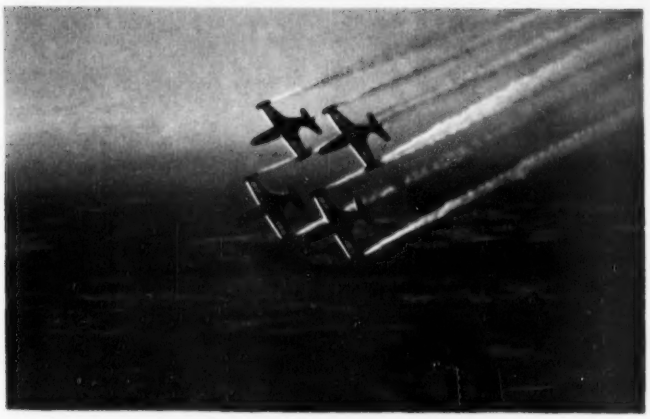
for speeding up

Ektachrome

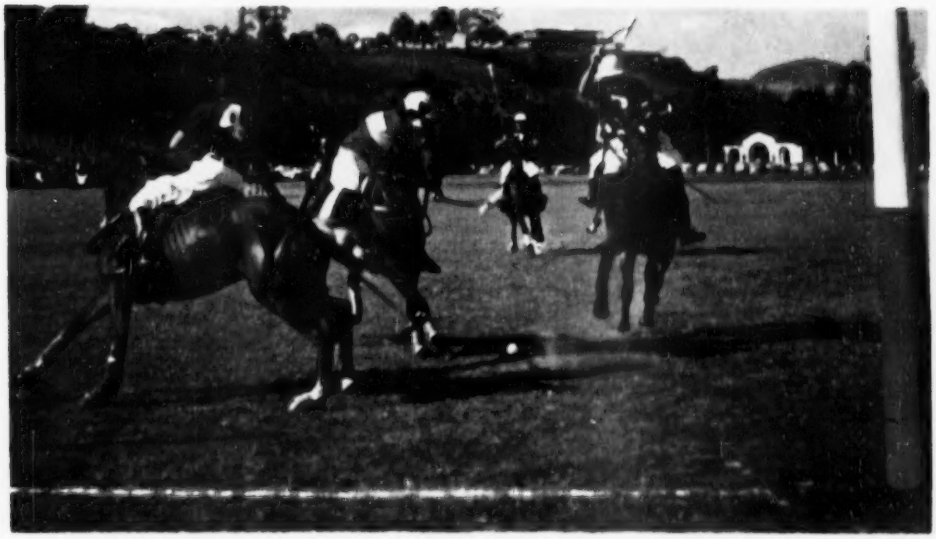
Today Life *photographers can shoot Ektachrome at 50 "ASA"—more than six times the normal exposure index. This remarkable feat is achieved by varying the usual Ektachrome process with which many color enthusiasts are familiar. Here, for the first time in any publication, Eyerman gives a detailed, step-by-step account of this important contribution to the fast-growing field of photo-journalism in color.*

I AM MORE PROUD and excited about what we do to speed up color-taking materials than I am about anything else. The broad problem of color speed goes on and on; every step ahead helps every photographer and every color job. In photo-journalism we fail with color most often because of the limitations of the emulsions—they are too slow or too contrasty. Our problem is to overcome these difficulties without sacrificing too much quality.

The *Life* fast color process is a chain of carefully balanced controls. Working it out was very tedious and costly because there is no single thing you can do to increase the speed of color film without changing color and contrast all up and down the line. One small change in one step has to be adjusted for in all the other control steps. Instead of one experiment you end up with a hundred. We began to make a profit in our testing when we dis- (*Continued on page* 206)



Four F-9-F jets flown by Navy's famous "Blue Angels" complete a roll in tight formation, above. Eyerman shot from a hovering helicopter. He exposed Aerial Ektachrome for 1/500 second at f/6.3, then processed for high speed as told in text, opposite page. Far right, a Viking rocket (also shown on page 48) soars toward the stars. The camera was tripped by a relay wired into rocket's firing circuit. Bled-strobe technique provided unusual shot of pole vaulter, right. Eyerman left the shutter open to record athlete's approach as a blur of motion, then froze the peak of leap with electronic flash. In black-and-white picture, left, notice the flood-lamps at side to illuminate running figure. Below, high-speed color process enabled Eyerman to stop violent action of polo game with fast shutter.



1/2 sec, f/1.5

1/50 sec, f/2.8

1/10 sec, f/2

KONER'S CIRCUS

1/25 sec, f/2

CIRCUS

A PROFESSIONAL AND AN AMATEUR SHOW YOU HOW TO MAKE SPECTACULAR PICTURES UNDER THE BIG TOP IN COLOR AND BLACK-AND-WHITE

IT'S CIRCUS TIME AGAIN. Some morning in your town the spring sunlight will reveal a magic city of tents, sprung mushroom-like from a vacant field. The calliope will shrill, the brass horns blare, and the young in heart of all ages will answer the Pied Piper call. Take your camera with you when you enter the enchanted canvas cave; inside is truly the greatest show on earth for picture-makers. Turn your candid lens on clowns and bareback riders, waltzing elephants and haughty lions, the high wire and the flying trapeze. Color, motion, and drama unfold as swiftly as you can trip the shutter. To help you record this pageantry on film, here are some helpful pointers from two photographers who love spangles and sawdust.

Marvin Koner, professional, shoots in color—by existing light

TOP-FLIGHT magazine photographer Marvin Koner happens to believe in miracles—on 35-mm Kodachrome, that is. The mood-evoking color pictures on the opposite page justify his faith: all were made by existing light in the cavernous interior of Madison Square Garden, New York, where he recorded the atmosphere as well as the action of a great circus.

When Koner finds himself in an "impossible" lighting situation like this, he uses a meter to find the recommended exposure. Then he sets his camera as close to this ideal as possible. Although his actual exposures rarely match the meter's recommendations, he almost always gets his pictures. Koner explains the paradox:

"The manufacturer's recommend color technique is designed to achieve so-called 'perfect' color rendition. This is vital to the photographer who must sell a dress or a strawberry shortcake. But as a reporter I am not primarily interested in color accuracy. I have to tell a story, set a mood, make my colors contribute to build up an idea without overpowering it. Candid picture quality means far more to me than color quality. The commercial photographer is selling color; I'm selling a story."

Working indoors at wide lens apertures, Koner refers to "my three shutter speeds." They are 1/2, 1/5, and 1/10 second. Even so, his expo- (*Continued on page* 210)

Dr. Warren W. Smith uses black-and-white

Balancing tumblers were caught at 1/500 sec and f/2. Overhead spotlights provided only light.

ANYONE who has a camera with an f/3.5 or faster lens can take existing-light photographs at the circus from his seat in the audience. With the aid of an f/3.5 objective there are few activities under the big top that cannot be recorded with high fidelity on film. I am not talking about chalk-and-soot studies in grain, but life-like photographs with excellent gradation.

The keystone of technique that makes photography possible under such adverse conditions is the use of the remarkable developer, Promicrol. (See *High Speed Plus Fine Grain*, POPULAR PHOTOGRAPHY, Dec., 1951.) When Plus-X is developed in Promicrol for 14 minutes at 68 F, it has an effective speed rating of 320. The resulting negatives have excellent tonal gradation and may be enlarged up to 16x linear. Parenthetically, it might be added that many photographers share the conviction that Plus-X is a more versatile and satisfactory emulsion than Super-XX for existing-light work.

What kind of camera should you use? One with an eye-level view finder is the easiest to operate if the photographer is seated among many other people. Probably

Dr. Smith used a 35-mm camera to make candid, existing-light shots.

Promicrol allowed him to expose this scene for 1/250 sec at f/2.8.

a 35-mm is the most satisfactory choice because not only does it permit eye-level viewfinding, but its capacity of 36 exposures reduces the number of times you must interrupt shooting to change film. However, many photographers use a twin-lens reflex or other type of camera with success under these conditions.

In candid photography it is advisable to record several exposures of each subject, for the subject is always on the move and the likelihood of capturing a good picture increases with the number of attempts. I customarily shoot about 100 frames at each circus performance; out of these, perhaps 20 on the average turn out to be well "posed."

A standard 35-mm camera with the usual 50-mm lens is perfectly adequate for this kind of photography, and you can get good views of subjects provided you are within reasonable distance. As already indicated, the very fine grain afforded by Promicrol will permit considerable enlargement with slight grain: thus even a small image can be blown up to adequate size. For example, a performer five feet tall and photographed at 40 feet would be three inches tall on a print enlarged to 16x linear. Remember, however, that such enlargement means that you must learn to hold your camera rock-steady because the slightest blur due to camera shake will be magnified many times. Using the relatively fast shutter speeds will help you guard against blur.

If you own a 35-mm camera with an interchangeable lens, and have access to an f/2 85-mm telephoto lens, you probably have the ideal equipment for candid circus photography. The longer focus, 135-mm lens would produce a larger negative image, of course, but the usual type available to amateurs has an f/4 maximum aperture. This would require relatively slow shutter speeds and thus increase the danger of camera blur, which is a much greater problem with telephoto lenses than with normal lenses. Of course you could use a tripod or unipod to steady (*Continued on page* 211)

Clowns make wonderful picture subjects. Smith enlarged up to 16x.

A symbol of circus glamour, this plumed girl astride a panoplied elephant was snapped at 1/125 sec and *f*/2.

7 KEYS TO OUTDOOR CHILD

OUTDOORS IN SPRING and summer you can photograph children in their favorite environment—in fields and woodlands, in fresh air and sunshine. Catch their fleeting expressions, preserve the exuberant instants and the pensive hours. These seven keys will help you open the door to finer children's pictures this season:

1. ADVANCE PLANNING saves time. Take advantage of the brief attention span of a child by working out all details before shooting. There are enough distractions outdoors; don't add to them by worrying over your camera.

2. SIMPLIFIED APPROACH makes shooting quicker and easier, and concentrates attention on your small subject. Work swiftly: get your pictures before the child has time to be bored. Remove extraneous elements from your picture.

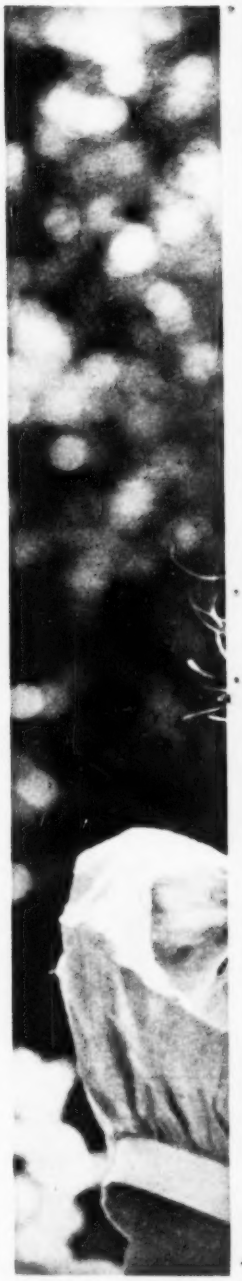
3. BACKGROUND must be chosen and used with care. If it's the sky, or a blank wall, there's no problem. If it's bushes or buildings, throw them out of focus by using your largest aperture and they will become a pleasing part of the picture.

4. PROPS CAN HELP: Use a kitten or an apple or a rail fence; it will absorb a child's interest and help break down self-consciousness. And—just as important—the proper prop can relate the child in the picture to his world.

5. SUNLIGHT: Use it, don't fight it. Keep strong sun out of a child's eyes to avoid squint and strain. Use backlighting for its magical, halo-like quality. Try side-lighting for roundness and depth. Don't shoot with the sun directly overhead.

6. REFLECTORS are a big help, too. Without them, backlighted and side-lighted portraits have no shadow detail. Use a sheet of tinfoil or a small roll of white oilcloth; ask one child to hold it while you photograph another.

7. PATIENCE—lots of it! You can win any child's confidence by straightforwardness, friendliness, and tolerance of his ideas and preferences. Losing patience *always* means losing pictures!—▶



Eye-appeal is the secret of success in these five pictures. The children are not motionless statues; each is doing something—eating an apple, fondling a cat, whispering in conspiracy, hanging on a fence rail. Three pairs of eyes are looking at the camera; three are not. All six pairs are animated, full of life and of the joy of being a kid. Light falls always from the best angle upon them—sometimes strong, sometimes diffused. There is nothing in any of the pictures that doesn't belong. The vital ingredient of each is the photographer's patience.

"A" is for "apple"—and "animation."

PORTRAITS

By PHOEBE DUNN
Photographs by the Author

A kitten to cuddle brings tenderness to any little girl's eyes. Props put charm in portraits.

Sidelighting requires reflector fill-in.

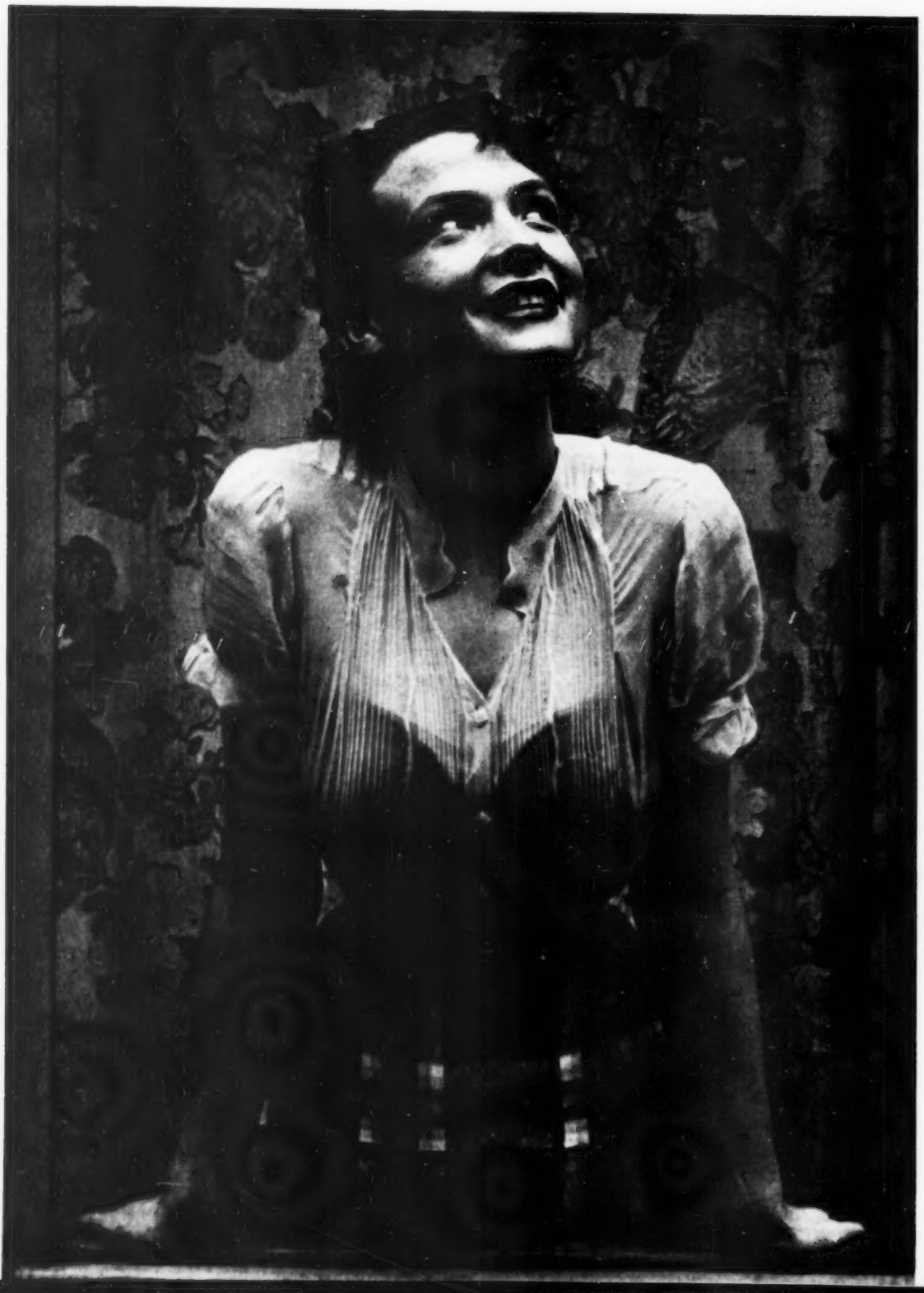
Clear sky makes an ideal background.

Rail fence prop makes posing easier.

PORTFOLIO

Brassai, the French photographer, is a master of light. He made this picture backstage at the Paris Opera House, and its simple charm, recalling a Degas painting, was achieved by the simplest means—open flash, a single bulb and an old folding camera.

One of the nice things about photography is pictures, and one of the nice things about editing a photographic magazine is looking at pictures. We see thousands of them every month and those we like best we buy and stash away in our inventory, which we regard as a treasure chest to be drawn on from time to time for our readers' pleasure and inspiration. Sometimes we use them in a picture section to illustrate a single theme, sometimes to show the work of one photographer. This time we have no special axe to grind—just a portfolio of good pictures. For technical data turn to *Portfolio Notes* elsewhere in the issue.



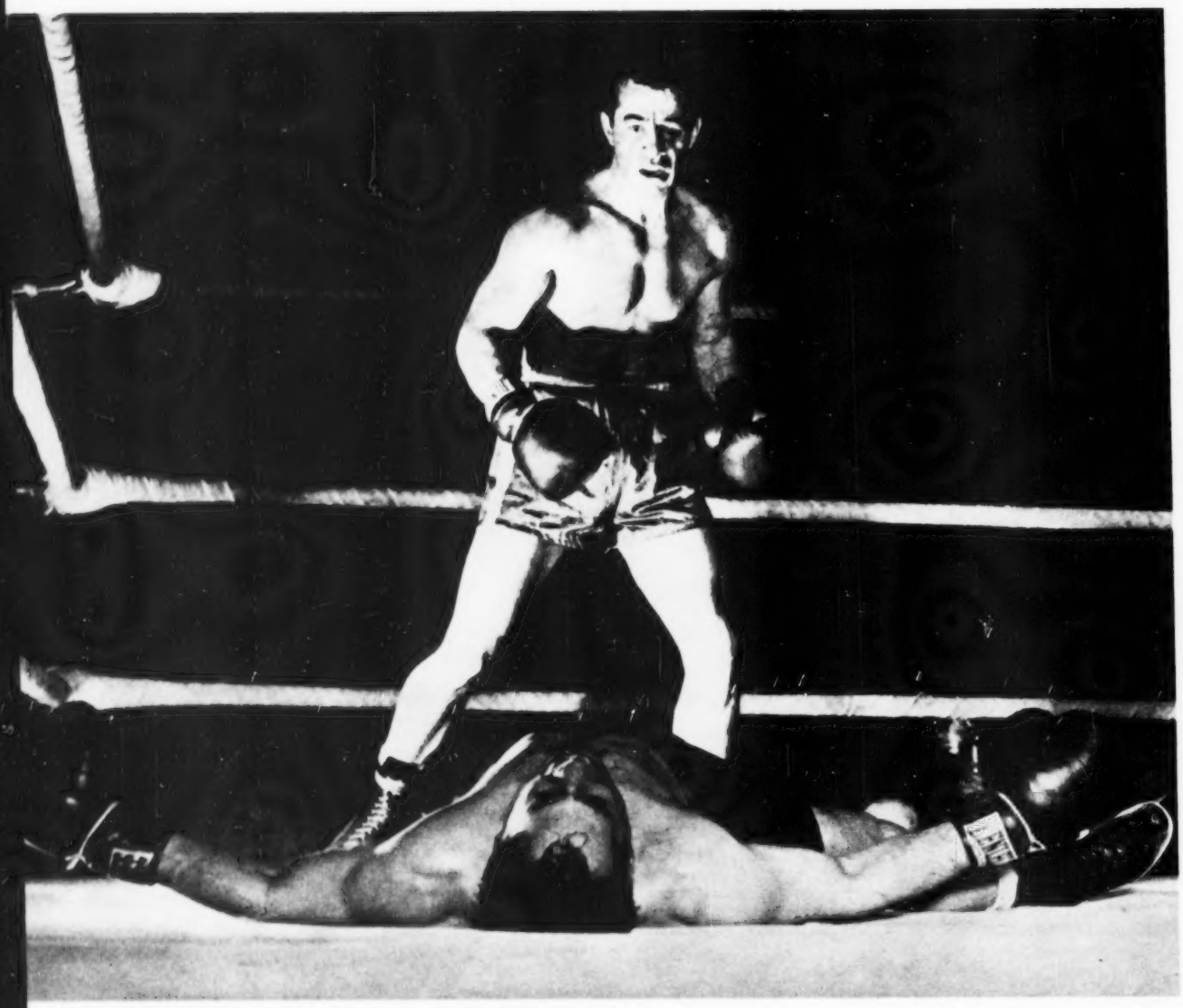
Sometimes pictures belong together as irresistibly as young lovers. The girl at the window was made in Paris, the boy with the bundle, in Florence. Perhaps their kinship springs from the fact that they were both made in springtime by the soft, diffused light of open shade and by the same photographer—Daniel Schwartz.

Here are three solutions to the difficult problem of photographing the female figure. Two were done in the studio, one done outdoors. Each interprets the figure in a unique way. Yulsman chose heavy shadow masses. Halsman kept the key high and revealed the flowing lines of the body, while Gowland showed his model under a high sun. Which one do you think succeeds best?

Jerome Yulsman

Peter Gowland

Philippe Halsman



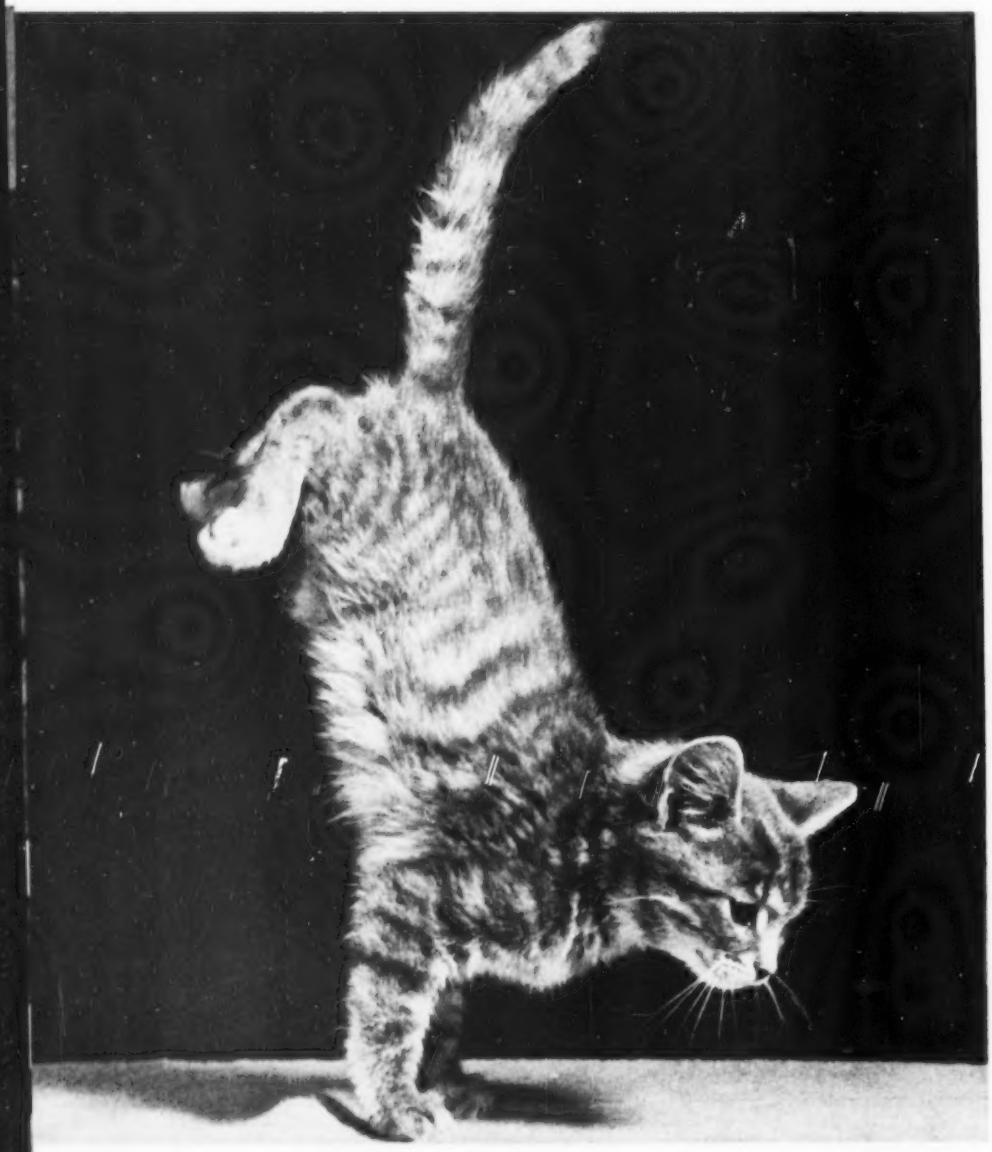
Sometimes pictures seem too good to be true—like this one that looks like a contrived illustration for a fight fiction story. But it's the real thing—speedlight, ringside shot of Rocky Graziano standing over Johnny Greco, whom he has just knocked out at The Forum in Montreal. It was made by David Bier for the Montreal Herald *and was named 1952* Canadian Picture of the Year. *For technical data turn to* Portfolio Notes.

Extreme contrast usually is undesirable in a photograph, but this one, in violating that "rule" converts an ordinary subject, the Cleveland Stadium, into a weird, woodcut-like black-and-white study. It was made by William J. Larcey one afternoon when, by some meteorological quirk, Cleveland was blacked out and the stadium lights were turned on. His exposure meter read zero. He exposed, by guess, for 30 seconds at f/16.

The women in Morihiro Satoh's picture are pearl divers on Hatsushima Island in Japan. The weather was cold and cloudy and the women had gathered 'round the fire to warm themselves between dives. Satoh not only caught the vitality of the divers, but he chose a moment when the eight figures had arranged themselves in a superb grouping.

Where once multiple flash was used for most assignments, today professionals prefer bounce light, which is easier to use and produces the soft quality of diffused daylight. Jerry Cooke made this shot at a chorus call by bouncing a speedlight high off the wall facing the waiting girls and taking advantage of the mirror images for added impact.

More and more amateur photographers are using speedlights to good effect these days as witness this delightful kitten picture (prize-winner in the 1952 PHOTOGRAPHY *contest) by Mrs. Janet Konkle of Grand Rapids, Mich., who used two of them to make it. Mrs. Konkle, who is a school teacher, mother of three, author and housewife, explains she picked up the kitten's hind feet, dropped them and pressed the trigger.*



When Louis Stettner was in Spain, Chica lingered about the doorway of his apartment in Malaga. "She would," he says, "always 'flirt' with me when I came out and then flutter off a distance to stare, until one fine day she decided to give me the full benefit of her big, almond eyes. We have been friends ever since." The moment of recognition and trust is in Chica's picture and so is Stettner's understanding and love.

The building that wasn't there

World's tallest skyscraper plays hide and seek with a magazine photographer and gives him a lesson in exposure

by Alfred Gescheidt

AS A professional photographer who has become known for some of my photo tricks it was a rather strange experience to have a photograph play a trick on me. The two pictures at right demonstrate what happened when I recently made a picture of the Empire State building, while on assignment at the United Nations in New York. Both prints were made from the same negative without dodging or tricks of any kind—just a difference in printing time.

I made the shot with a 4x5 Linhof and an 8½-inch *f*/6.3 Commercial Ektar lens. The exposure was 1/10 second at *f*/11. After normal film development in DK-50 I started printing. The first print of the Empire State shot was exposed for 15 seconds, my normal basic exposure for average negatives on High Speed Varigam. I was quite amazed to see the top print come out minus the building, which was visible on the negative. On the fifth try—a three minute exposure—I finally got the elusive structure to come through. But in doing so the foreground buildings were over-exposed and so appeared as silhouettes.

Backtracking, I was able to trace what had happened. First of all, I had taken a wrong exposure reading. The Empire State had been in full sunlight while the foreground buildings had not, which resulted in blocking up the skyscraper.

The second mistake occurred in the darkroom, where I had used ordinary Varigam instead of my usual High Speed Varigam, throwing off my printing exposures.

However, it all taught me a lesson. Regardless of how familiar you may be with your equipment, it's most important to double check each step. In this case the errors made an interesting story—on an assignment it could have been disastrous.—

The Kodak BULLETIN

How to choose B-C flash

Battery-condenser flash units are the modern power sources for photoflash photography. All B-C units are alike in principle; but they differ widely in design, construction, features, accessories, power—and price.

In an ordinary flash unit, one or more small dry cells fire the lamp. As the cells weaken, the flash timing becomes less reliable. Each extension lamp requires an additional set of dry cells.

In your B-C unit, a small, powerful multi-cell battery charges an electrolytic condenser. When your camera's shutter contacts close, the charge stored in the condenser fires the lamp or lamps. This method has two tremendous advantages.

Power and Uniformity

First, the powerful condenser surge will safely fire several lamps—not just one. And when the circuit is series-wired, as in Kodak flash equipment, all the lamps fire in accurate synch. B-C maintains reliable timing even when the battery has weakened considerably through age or use, and even in cold weather.

B-C is thrifty, too. It avoids failures that waste lamps and film. And, generally, one battery will last a year or more—is good for thousands of flashes.

Up to 3, or More than 3?

Now, how do you select? First, size up your power needs. Will you be using more than 3 lamps at a time in lighting set-ups? Will you need remote control, or extra power to operate a shutter solenoid? If so, you need professional units—Kodak Ektalux equipment.

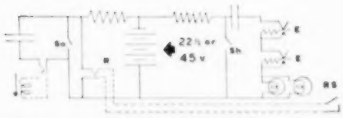
But if you will never use more than 3 lamps at a time, the sturdy, inexpensive Kodak B-C Flasholder will serve your needs. You can add one or two extension units as needed. And, if you already have a flash unit that accepts two "C" cells end to end, you can convert to B-C at minimum cost—just slip a Kodak B-C Flashpack into the unit.

Check Quality, Details

Whatever B-C flash units you examine, check the design and construction for quality. Check the internal electrical components. Check the cords and connectors; any inadequacy here spells electrical resistance, defeating the advantages of B-C. Kodak, for instance, uses rhodium-plated connector contacts to insure low resistance and freedom from corrosion. Such details are important.

Be sure the flash unit has extension outlets. Check also for mechanical soundness—sturdy bracket, positive lamp ejection, proper reflector shape and surface, good firm grip in the hand, lamp acceptance, flash exposure data conveniently at hand. Buy for good value, to fit your needs—and you need buy only once.

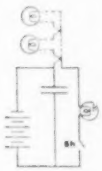
Professional Power—Kodak Ektalux Equipment



Kodak Ektalux is professional B-C power. The Ektalux Flasholder accepts either one or two 22½-volt batteries. With two, it will fire up to 7 lamps, strung out over 120 feet of extension cable. It has separate circuits for flash and solenoid, each with its own big condenser (see diagram), and special protective features for the shutter contacts. In addition to the Ektalux Extension Units, special accessories provide for external synch and remote (solenoid) shutter operation. Firm saw-grip handle fits your hand. Sturdy magnesium Flasholder body combines ruggedness and light weight. All units accept both screw-base and midget lamps. Special brackets for standard amateur, press, and Polaroid cameras. Ektalux Flasholder, $29.75 to $33.85, depending on bracket. Extension units, each with 20-foot cord, $12.40.

Ektalux Flasholder ▲ and Extension Units

Thrift, Efficiency—Kodak B-C Flasholder

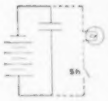


The Kodak B-C Flasholder combines power, efficiency, and thrift. Accepts one 22½-volt battery; handles basic lamp and two extensions. Brilliant mirror-surfaced Lumaclad reflectors assure peak efficiency from each lamp. Tough molded body provides firm hand grip. Steel U-channel bracket with riveted, cemented inset pad keeps flash and camera rigidly aligned. Simple closed circuit (see diagram) keeps condenser charged, ready to go at all times. A quality unit at a modest price—$10.40. Kodak Extension Unit, Model 1, with 20-foot cord and cushioned, adjustable clamp, $11.00.

▲ Extension Unit, Model 1 (includes clamp and cord) and Kodak B-C Flasholder ▶

Model 1 Clamp ▶

Low-Cost Conversion—Kodak B-C Flashpack



Thrifty Kodak B-C Flashpack has same basic circuit as Kodak B-C Flasholder (see diagram). Inserts into any flash unit without solenoid control that accepts two "C" cells end to end; uses one 22½-volt battery. For only $2.95 it converts your existing equipment to modern B-C operation.

▲ Kodak B-C Flashpack

See your Kodak dealer, and review your flash needs with him. Change to B-C now—and you'll always be glad.

EASTMAN KODAK COMPANY
Rochester 4, N. Y.

Prices are list, including Federal Tax, and are subject to change without notice.
Batteries not included.

Kodak
TRADE-MARK

The Kodak BULLETIN

How to choose

Film length. Long roll, for less cost per picture? Or shorter rolls, to complete quickly for prompt processing?

Film advance. Smooth, free operation? Easy-to-grasp controls? Automatic exposure counter on 35mm?

Shutter release. Smooth? Reliable? Easy to manipulate? Properly placed for camera steadiness?

Shutter. Accurate? Right speeds for the lens? Is the speed range realistic in terms of your needs? Clear, legible scales? Dependable built-in flash synchronization?

Interior construction. Sturdiness? Smooth rollers and fittings? Proper baffling and blacking? Accurate film guides? Properly sprung, non-scratching pressure plate? Neat detailing?

Lens. Right speed for your actual range of needs? Recognized quality? Easy setting? Clear scales, with "average" settings clearly marked?

Finish. Smart styling? Good detailing? Rugged materials on a rugged body foundation? Good feel and easy balance in your hands?

Viewfinder. Clear vision? Easy eye-centering and framing? Combined with rangefinder for convenience?

Rangefinder. Accurate? Same reading when tested on the same object twice in succession? View and range combined for convenience?

Focusing. How close? Clear footage scale? Field depth scale? Smooth operation in all weather, hot or cold?

Lens Mount. Is it rigid? Smooth in action? Modern in engineering? Will it maintain exact alignment with use?

★**Price.** Be sure the money goes into the features and quality you need, not gadgety details or surplus capacity you don't need. Kodak has already proved in this great camera—the Kodak Signet 35—that a top-flight miniature need not cost a fortune.

Miniature cameras are enjoying a new surge of popularity—and rightly. A really good miniature is one of the most rewarding of cameras. But there are many types—and one must choose with care.

What are the tests of a miniature camera? The expert has three—optical excellence, mechanical soundness, and swift, convenient operation. Or, in everyday terms—picture-taking ability, reliability, and ease of use.

Every Kodak miniature camera is designed to meet these three basic tests, whatever the price. But in addition, there are your personal needs to consider. Do you need top speed in the lens, and other special features? Or is your real need a medium-speed lens of supreme quality? Do you need extreme compactness? Instead of one fast-lensed camera, will you be better served by *two* thrifty cameras, with good lenses of fair speed? Your needs are personal, individual—and that is why Kodak makes different types of miniature cameras, in a wide price range.

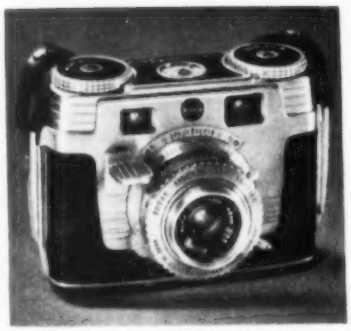
The check points, above, help you determine if a camera is optically sound, reliable, and easy to use. Below and on the opposite page are the capable Kodak miniatures, with a listing of the features that will help you match your needs and your budget.

Is it precision you need?

Do you need color transparencies and black-and-white negatives of needle-like sharpness? Do you need picture quality unsurpassed by any miniature camera at any price? Then your natural choice is the Kodak Signet 35 Camera.

KODAK EKTAR LENS *f*/3.5. The finest lens obtainable on a miniature camera, incorporating the highest degree of correction today's optical science can provide. Fully *Lumenized*.

KODAK SYNCHRO 300 SHUTTER. Two-bladed flash-synchronized shutter of unique



design provides fast opening and closing, maximum light admission, great accuracy. Speeds from 1/25 to 1/300 second. Shutter and lens settings red-marked for average shots—in color or monochrome.

BALL-BEARING LENS MOUNT. Lens barrel rotates against 50 ball bearings for satin-smooth focusing and elimination of play.

RUGGED, ACCURATE RANGEFINDER. Combined with viewfinder to provide faster shooting and better picture control. Spring-loaded V-bearings eliminate range errors.

CONSTRUCTION FEATURES. Incorporates the latest advances. Film is held completely flat, yet advances smoothly and easily with a flick of the thumb. No scratching, because

a miniature camera...

film pressure plate rests on film-high guides. Body is of tough, die-cast aluminum alloy covered with scuff-resistant Kodadur.

The Kodak Signet 35 Camera takes 135 film, black-and-white or Kodachrome, in 20- or 36-exposure cartridges. Price, $92.50.

Need top speed?

For fast action, even in color, and for tough shots in subdued light, the lens of the Kodak Retina IIA Camera stretches your picture-taking range. Check these Retina features:

SCHNEIDER RETINA-XENON LENS *f*/2. This superbly corrected, fully coated *f*/2 lens is fast enough for full exposure in color on misty, rainy days . . . as well as fast action color shots of sports events.

SYNCHRO-COMPUR SHUTTER. Matched to the lens speed, the flash-synchronized shut-

ter of the Retina IIA gives nine speeds from 1/500 second to a full second.

RAPID FILM ADVANCE. Film advance lever, for fast action and rapid sequence shots. A flick of the thumb advances film, positions it, re-sets the exposure counter, cocks the shutter and synchronizer.

COMBINED RANGE- AND VIEWFINDER.

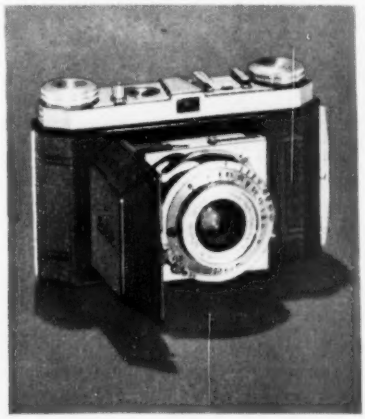
CONSTRUCTION FEATURES. Made of die-cast aluminum alloy with genuine pin-grain leather covering. Front closes when not in use, protecting lens and shutter. Uses 135 film, black-and-white or Kodachrome, 20 or 36 exposures. Price, $164.10.

Need compactness at a thrifty price?

Bantam compactness, Pony thrift, and smart Continental styling of the Retina IIA are combined in the Kodak Retinette Camera.

SCHNEIDER REOMAR LENS *f*/4.5. A fine, fully color-corrected, imported lens. Coated for maximum color purity and freedom from flare.

WIDE-RANGE SHUTTER. Speeds from one second to 1/300 second. Built-in delayed ac-



tion gives plenty of time after setting shutter to get in the picture yourself. Synchronized for flash. Body shutter release.

COUPLED FILM ADVANCE. Provides automatic film stop, film counter, and double exposure prevention.

CONSTRUCTION FEATURES. Body of die-cast aluminum alloy is covered with fine pin-grain leather. Front closes, protecting lens. Uses 135 film, black-and-white or Kodachrome, 20 or 36 exposures. Price, $59.50.

Need a really compact fine camera?

Only 4⅝ x 2⅝ x 1⅝ inches closed, the Kodak Flash Bantam Camera is a true miniature that delivers big results . . . clean, sharp Kodachrome transparencies, black-and-white and Kodacolor negatives.

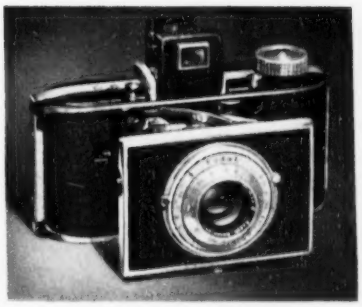
KODAK ANASTAR LENS *f*/4.5. Has ample scope for superb results outdoors, or indoors by artificial light. *Lumenized.*

FAST FLASH SHUTTER. Four speeds, 1/25 to 1/200 second, plus Time and Bulb.

LOCKING FILM ADVANCE. Safety catch prevents inadvertent winding of the film.

EYE-LEVEL VIEWFINDER. Direct, optical, eye-level, folding type.

CONSTRUCTION FEATURES. Special aluminum alloy die-cast body for sturdiness and rigid positioning of the lens-and-shut-



ter mount. Scuff-proof Kodadur covering. Uses 828 roll film—black-and-white, Kodachrome, or Kodacolor—8 exposures. Price, $56.00.

Need quality performance at lowest price?

For a thrifty start on a picture-taking career . . . or for a supplementary camera, choose the Kodak Pony 828 Camera.

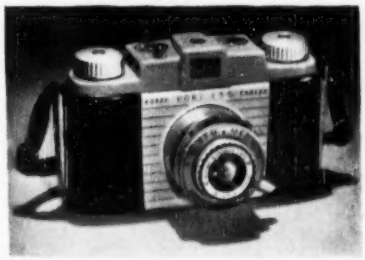
KODAK ANASTON LENS, *f*/4.5. *Lumenized.*

KODAK FLASH 200 SHUTTER. Speeds from 1/25 to 1/200. Body shutter release. Average shutter and lens settings marked in red.

OPTICAL VIEWFINDER.

CONSTRUCTION FEATURES. Body is of tough molded material finished in pin-grain leather texture. Top plate is of gray Tenite. Takes 8-exposure 828 film—black-and-white, Kodachrome or Kodacolor. Price, $31.15.

Kodak Pony 135 has all features of Pony 828 plus automatic film stop and counter. Takes 135 film—black-and-white or Kodachrome, 20 or 36 exposures. Price, $35.75.



Prices include Federal Tax and are subject to change without notice.

Let your Kodak dealer show you these Kodak miniature cameras.

EASTMAN KODAK COMPANY, Rochester 4, N. Y.

Kodak
TRADE-MARK

Enjoy the magic of movies at a

New Lower Price

with the

Brownie

Movie Camera

NOW ONLY

$39.75

Some months ago, Kodak's budget-priced new 8mm. Brownie Movie Camera brought the thrill of movie making within reach of thousands. Then, to complete Kodak's economy movie team, came the low-cost but capable Brownie Movie Projector and Brownie Projection Screen.

Now, from Kodak comes another important Brownie announcement: Now, you can own a Brownie Movie Camera . . . start making your own movies . . . of your family . . . of the places you go . . . of the things you do . . . for just $39.75.

See what you get!

Snapshot ease of use

It loads as easily . . . operates as simply . . . makes pictures as surely . . . as a Brownie snapshot camera. Make one simple lens setting according to the built-in exposure guide. Then aim and shoot.

Snapshot economy

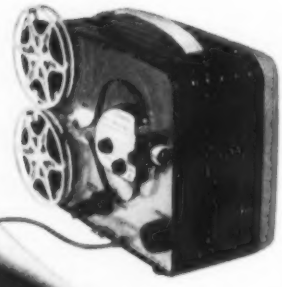
In black-and-white or full color. One roll of 8mm. Kodachrome Film (only $3.95) gives you 30 to 40 average-length scenes . . . enough for a whole weekend of fun. Black-and-white film is priced even lower. *And prices include processing!*

Luxury camera features

A fast, pre-set Kodak Cine Ektanon *f*/2.7 Lens. Sprocketless loading. All-purpose, all-film exposure guide for indoor and outdoor shots. Finger-tip "click-stop" lens-opening adjustment. Full-vision, eye-level finder with close-up indicators. Exposure button that locks into position for "self-movies." Accurate, easy-reading footage indicator. Handsomely styled, "shaped-for-shooting" case in Kodadur-covered aluminum.

And its projection companion for all 8mm. movies

Brownie Movie Projector... only $62.50



Completely new design makes it as easy to thread as the Brownie Movie Camera. Then a flick of the switch and you are showing your own movies . . . "stills" and reverse action, too, if you wish. And, it's also lubricated for life!

Ask your Kodak dealer to show you the Brownie Movie Team—camera, projector, and beaded 22x30-inch screen. (Brownie Projection Screen $4.50.)

Prices include Federal Tax where applicable and are subject to change without notice.

Kodak

TRADE-MARK

EASTMAN KODAK COMPANY, Rochester 4, N. Y.

Eyerman

(*Continued from page* 50)

the Gulf Stream itself where they found sufficient visibility. However, Eyerman and Kern dangled for three hours in the bell before it could be lined up with the submarine. Nobody's peace of mind was improved by six sharks which lazily circled the bell during this operation.

At last the bell was jockeyed into exact position. Eyerman began counting off the seconds—"Ten . . . nine . . . eight . . . seven . . ." At "Zero!" the first torpedo snaked from a forward launching tube, then veered sharply upwards and broke water. The camera missed it completely.

On the second try somebody aboard the sub mistook the count of "five" for "fire" and released torpedo No. 2 prematurely. It flashed by unphotographed.

Just as the third torpedo was fired someone on the tender decided to ventilate the bell. A blast of fresh oxygen blew out the stale air in a cloud of bubbles that completely obscured the camera's field of view. But Eyerman's run of bad luck broke at last; the bubbles came a split second after the torpedo streaked past. He got the picture that "couldn't be made."

For the same story Eyerman photographed those flipper-footed underwater commandos, the Navy "frogmen." To get shots of frogmen in action he bolted a camera to the submarine's deck opposite the escape hatch. Riding a tender a few feet above the submerged sub, he peered down through the clear water, waited until the frogmen slithered out of the hatch, then fired his camera with a remote-control shutter release. The resulting pictures have an eerie, other-worldly quality that make them unforgettable.

Eyerman's work sometimes brings him face-to-face with physical danger, but he's no reckless daredevil. He says, "I'll never take a free airplane ride or stick out my neck just for thrills. But if I'm on a job with a camera I'll go just about anywhere and do just about anything."

On one occasion he crawled through a blacked-out mine studded with heavy charges of dynamite. The mine was scheduled to be demolished by experts from the U. S. Bureau of Mines, who wanted photographs to show the effect of different blasting techniques. Eyerman heard about the tests, sensed a good picture, and obtained permission to record the blast by flash—something never before attempted.

He and an assistant went down into the mine and studied the setup. He recalls, "The holes were drilled and the dynamite fused so that a wedge of rock would be blown out of the wall first, to be followed immediately by the main blast. This was accomplished by wiring fuses with delays of from 0 to 50 milliseconds."

"I wired flashbulbs into the firing circuit of the blasting caps. Thus I hoped to record the various stages of the explosion. To keep from wasting reflectors I simply soldered the wires to the bulbs and strung the bare bulbs along the ground in various positions shielded from the camera."

To protect the camera itself Eyerman had a box built from iron boiler plate. He then placed his armor-plated camera on the far wall from the blast, inserting it in a hole the miners drilled for him out of solid rock. The shutter was left open on time. After the miners had finished their work and snapped off the lights, Eyerman came back in the dark and pulled the slide from the film holder. Then he retreated above ground and awaited the blast.

It came, with a mountain-shaking roar. "Our picture was fine up to a point," says Eyerman. "It took about 30 milliseconds for the first shock wave to hit the far wall where the camera was. But the wave did something we hadn't foreseen: it jarred the shutter blades so hard that they closed." Thus only the first stage of the explosion was recorded.

Eyerman tinkered around some more and came up with a metal camera having a fool-proof, lens-cap shutter. The Bureau of Mines has been using a similar gimmick for blast studies ever since.

Other Eyerman inventions are a Rolleiflex with interchangeable lenses, and the offspring of a Graflex crossed with a K-24 aerial camera. The tricked-up Rollei takes four sets of viewing and taking lenses including a 7-inch telephoto. Each pair has its own shutter and focusing system, and can be switched with ease. Eyerman says he could connect the interchangeable shutters to the automatic film transport but hasn't yet bothered to do so. He uses this camera mostly for portraits and candid work.

His K-24-plus-Graflex was designed to get action sequences with a "Big Bertha" telephoto lens. It permits focusing and framing on the groundglass up to the last possible moment before exposure, then makes rapid-fire shots. Eyerman took the back of an Air Force K-24 aerial camera (which triggers the shutter electrically at three to five frames per second), grafted it onto the body of a Graflex D, and added a 20-inch telephoto lens. It also was necessary to rearrange the angle of the Graflex mirror, add a more precise focusing knob, and put in a tilt front for distortion control.

This hybrid monster performs beautifully, although it still contains a few minor bugs that Eyerman has yet to iron out. He used it to record the launching of a huge Viking rocket at the White Sands, N. M., testing grounds. The camera was triggered electronically by a relay connected to the firing circuit of the rocket.

The K-24-plus-Graflex was one of the 20 cameras that Eyerman used when covering an A-bomb explosion at Yucca Flats. But although he obtained many sequence shots of the big blast in color and black-and-white, his most spectacular picture was made with the aid of another unusual device—a huge, convex, metal mirror. The successful use of this unlikely gimmick demonstrates typical Eyerman ingenuity and imagination.

Originally the mirror was designed to record a wide-angle view of the Northern Lights. Eyerman took the weighty hemisphere all the way to the Hudson's Bay region north of the Arctic Circle. But when set up for shooting it proved useless: the reflecting surface quickly frosted over like a farmhouse window on a January morning.

At Yucca Flats, Eyerman had a flash of inspiration. He remembered the mirror, gathering dust somewhere in a *Life* storeroom, and sent a rush call to New York. The mirror arrived in time to be used during the explosion. Eyerman placed it halfway up "News Nob," the hill assigned to photographers covering the blast, and set up a camera with telephoto lens facing away from the target area but towards the mirror. The result was a remarkable "wide-angle telephoto" shot that included foreground figures (due to the mirror's broad field of coverage) plus a magnified view of the atomic fireball itself (thanks to the telephoto lens).

Another clever technique was developed by Eyerman to record low-flying jet planes at the super-secret Edwards Base,

(*Continued on page* 206)

Life team, on location with Navy, test underwater cameras at bottom of a swimming pool.

Wildlife movie maker John Roberts befriends porcupine . . . shows him his 3-lens turret movie camera.

STALKING

Interesting close-up of timber coyote was made from safe distance with aid of a telephoto lens. Tripod is a "must" for long lenses as movement is magnified.

Mountain sheep's portrait was made in Alberta (from 16-mm color frame).

Patient stalking is a valuable asset. Here it was rewarded by a striking, well-composed close-up scene of three antelope in Texas. Telephoto was used.

GAME

WITH A MOVIE CAMERA

PATIENCE AND A LONG LENS WILL HELP YOU GET GOOD WILDLIFE SCENES

By ORMAL I. SPRUNGMAN

Photographs by Harry R. Roys, Martin Bovey, A. Earl Jourde, Arthur D. Jackson, and Mrs. John G. Roberts.

Early summer is best to stalk still-in-the-velvet deer. White-tail was shot in far west.

MAN IS SELDOM completely satisfied with his lot. He is continuously looking for new fields to conquer. Particularly is this true of the amateur movie maker, who is forever searching for the elusive. It's the uninhibited amateur, indeed, who makes the cine hobby march forward continuously.

When long-focus lenses were introduced, some die-hard purists claimed that telephoto-made movies of wildlife just weren't cricket. To produce honest footage, you had to spend endless hours stalking your quarry, belly-crawling hundreds of feet, if necessary, to get within shooting distance with a normal lens. To do otherwise, they claimed, would be unfair to both subject and audience. Of course, longer lenses soon became widely used. With telephoto-equipped camera, one could lean on the window sill of his car and shoot close-ups of wild game without leaving the highway; he could reach across valleys and streams otherwise impossible to span readily, and bring wild life—in effect—right up to his lens. The telephoto's popularity today is unquestioned.

Most 8-mm and 16-mm cameras today are either turret-equipped to hold two or more lenses, or are single-lens jobs which permit easy removal of short focal length objectives when substituting telephotos. These lenses either snap on or screw on, and each must be used with a viewfinder which decreases the image field to that of the lens itself. In close-up work with such lenses, special precautions must be taken with parallax to avoid lopping off the upper portion of your subject.

The length of the lens best suited for your needs will depend on how much you want to pay and the use to which the lens will be put. For the average movie maker, the 1½-inch 8-mm lens or the 3-inch 16-mm will give good results, both enlarging the image three times. In other words, a mountain lion or tiger at, say, 60 feet, will look as though it were taken at the frightening distance of only 20 feet.

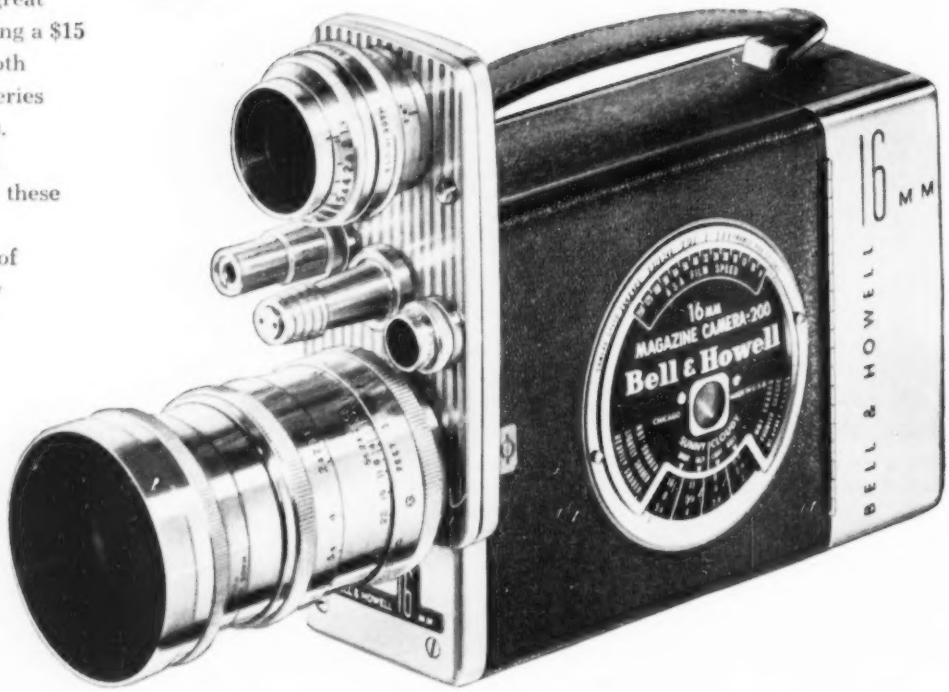
While a medium-length telephoto is ideal for big game, smaller camera subjects and those more difficult to approach, may require a 4- or 6-inch lens (or 8-mm equivalent) to create images four to six times larger than with the normal 1-inch lens. Advantages are obvious.

But there also are disadvantages. As subject magnification increases, camera handling is exaggerated, which necessitates use of a tripod or other sturdy support to prevent pictures from bouncing about on the screen. In fact, telephoto movies never should be taken without rock-steady support. Only exception might be when panoraming to follow game animals or birds in flight. Here smoothness is attained by keeping the subject perfectly centered in the viewfinder. Increasing shutter speed from normal silent speed of 16 frames, or 24 frames a second sound speed, to 32 or even 64 frames, will help even out any irregularities in camera holding or (*Continued on page* 204)

Pursuing dogs caused this grey fox to seek shelter in a tree, but he couldn't escape the far-reaching eye of a telephoto lens—for a beautiful wildlife shot.

new low prices!

Bell & Howell takes great pleasure in announcing a $15 price reduction on both models of their 200 series 16mm movie cameras. Ruggedly built, with unparalleled beauty, these magazine-loading cameras have many of the features of costly professional models.



Swifturn turret model with 1-inch f/2.5 lens only, now $219.95.

these fine 16mm movie cameras now cost $15 less

Both of the instant-loading 200's feature positive viewfinder, 12½ foot film run, 5 speeds, continuous run lock, single frame release, and, of course, are guaranteed for life. The 200 with 1-inch f/2.5 Filmocoted lens, $174.95.

Bell & Howell

makes it fun

to make movies!

SEE YOUR AUTHORIZED BELL & HOWELL DEALER OR WRITE BELL & HOWELL, CHICAGO 45

PHOTOGRAPHY

1953

Directory of Photographic Equipment

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1953 DIRECTORY OF PHOTOGRAPHIC EQUIPMENT

This Directory, the largest and most popular of its kind ever published, includes a vast majority of equipment now being manufactured with the exception of highly specialized, professional items.

The Directory was compiled by the editors of PHOTOGRAPHY, who relied on information furnished by the manufacturers and distributors of the equipment. The properties ascribed to the various items are those claimed by the manufacturers and distributors themselves. All data given and prices quoted are as of March 1, 1953 and are subject to change.

Limitations of space prohibited detailed listing of some types of equipment. Classified under the heading of "Miscellaneous Equipment" will be found a condensed Directory covering items not described in detail. Further information on any items may be obtained by contacting photo dealers or the manufacturers or distributors themselves.

Prices include Federal Excise Tax wherever applicable.

ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS ARE LISTED ON PAGE 194.

STILL CAMERAS

Stereo cameras are not included here. They are listed in the Stereo section on page 185.

AKAREX

Cartridge 35-mm; 20 or 36 exposures, 24x36 cm; coated 50-mm Schneider Xenon f/2 lens; depth of field scale; bayonet base; Synchro-Compur shutter, speeds 1 to 1/500 sec & B; built-

in synchronization; coupled range-viewfinder permanently attached to interchangeable lens unit; film speed indicator; exposure counter; price, $198.50; case, $11.50.

DIST., Mitrope Corp.

•

ALPA 4

35 mm; single lens reflex; up to 36 exposures, 1x1½"; depth of field scale; focal plane shutter; one-knob winding; speeds from 1 to 1/1000 sec., T & B; built-in synchronization for electronic flash and flash; sports type finder; complete accessories and lenses; price, with coated Alfinon 50-mm f/1.9 lens, $259; with coated Schneider-Xenon 50-mm f/1.9, $339; with coated Switar 50-mm f/1.8 Apochromat, $369.

ALPA 5

Same as ALPA 4, but with built-in Kern prism which reinverts image and provides logical 45-degree viewing angle; price, with coated Alfinon 50-mm f/2.8, $329; with coated Switar 50-mm f/1.8 Apochromat, $439; with Schneider-Xenon 50-mm f/1.9 lens, $409.

ALPA 7

Same as ALPA 5, but with single window, superimposed, coupled rangefinder and multifocal viewfinder for 50, 90 and 135-mm lenses; self-timer; price, with coated Alfinon 50-mm f/2.8 lens, $369; with coated Schneider-Xenon 50-mm f/1.9 lens, $449; with coated Switar 50-mm f/1.8 Apochromat, $469.

DIST., Karl Heitz Inc.

•

ANSCO AUTOMATIC REFLEX

Rollfilm size 120; 12 exposures 2¼x2¼; 2-lens reflex; 83-mm coated anastigmat f/3.5 lens; depth of field scale; set-and-release-type shutter; speeds from 1 to 1/400 sec. and B; built-in synchronization; eye-level and reflex-type finders; focusing scale; exposure counter; automatic film transport; double exposure prevention device; lever for taking multiple ex-

posures; dual focusing controls; depth of field guide. Price, including tax, $189.25. Eveready case, $12.50. Accessories include filters, lens shade.

ANSCO FLASH CLIPPER

Roll film size 616; 16 exposures; 2 1/16x2½ size; fixed focus; doublet lens; single-leaf shutter; built-in synchronization; eye-level viewfinder; built-in yellow filter. Price, $14.95 including tax. Accessories include eveready case at $3.25; flash unit, $3.45.

ANSCO KAROMAT

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Schneider Xenar f/2 lens; depth of field scale; Synchro-Compur shutter with speeds from 1 to 1/500 sec., T & B; built-in synchronization; built-in eye-level finder; helical focusing; coupled, single-window-type rangefinder; exposure counter; depth of field guide; rapid feeding lever with automatic shutter cocking device and exposure counter; body release; double exposure prevention device. Price, $164.10; case, $12.50.

ANSCO SPEEDEX SPECIAL

Rollfilm; 12 2¼x2¼ exposures; coated Agfa Apotar f/4.5 lens; Prontor shutter, speeds 1 to 1/300 sec., T & B; built-in synchronization; depth of field scale; double exposure prevention; built-in self-timer; self-erecting front; eye-level viewfinder; body shutter release; swing-out film spool; tripod socket; cable release socket; all-metal construction. Price, $48.65; eveready case, $6.95.

ANSCO SPEEDEX

Similar to above, but with coated Agfa Agnar f/4.5 lens in Vario shutter, speeds 1/25 to 1/200 sec. & B; built-in synchronization; no double exposure prevention or self-timer. Price, $36.50; case, $6.95.

ANSCO PIONEER 16

Rollfilm size 616; 8 exposures, 2¼x4¼ size; single f/14 lens; fixed focus; single-leaf shutter; eye-level finder; built-in synchronization. Price, $9.60 including tax. Flash attachment available as accessory, $2.75.

ANSCO REGENT

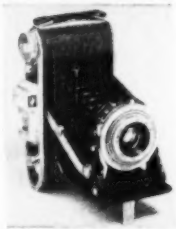
35 mm; 36 exposures, 24x36 mm; Agfa Apotar f/3.5 coated lens; Prontor-SV shutter, 1 to 1/300 sec., B, built-in FMX flash and electronic flash synchronization; self-timer; eye-level viewfinder; exposure counter; depth of field guide; price, $54.50. Case, $6.95.

ANSCO SPEEDEX SPECIAL "R"

Folding; 120 rollfilm; 12 exposures, 2¼x¼; Agfa Apotar 85 mm f/4.5

coated lens; depth of field guide; Prontor-SV shutter, 1 to 1/300 sec., B, built-in FMX synchronization; eye-level viewfinder; rangefinder; price, $57.50. Case, $6.95.

ANSCO VIKING f/4.5

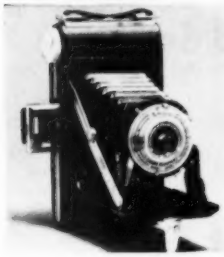


Rollfilm size 120; 8 exposures, 2¼x3¼; coated Agfa Agnar f/4.5 lens; Pronto shutter, speeds 1/25 to 1/200 sec. & B; built-in synchronization; built-in self-timer; manual focusing; swing-out film spool; eye-level viewfinder; tripod socket; cable release socket; all-metal construction. Price, $48.65; eveready case, $6.95.

ANSCO VIKING f/6.3

Similar to above, except with coated Agfa Agnar f/6.3 lens in Vario shutter, speeds 1/25 to 1/200 sec. & B; all other features same. Price, $34.95; case, $6.95.

ANSCO VIKING READYSET

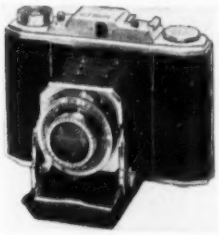


Folding; 120 rollfilm; 12 exposures, 2¼x2¼; Agfa Isomar lens; shutter synchronized for B, I; two-position focusing; price, $19.95. Eveready case, $4.95.
MFR., Ansco.

APLAX MODEL 35

Cartridge 35 mm; 36 exposures, 1x1½"; miniature camera; 50-mm coated f/1.9 Foca lens; depth of field scale; focal plane shutter, speeds from 1/10 to 1/1000 sec., T & B; built-in synchronization; eye-level finder; helical focus; coupled rangefinder, 1 window for range- and viewfinders; hyperfocal distance table. Price, with eveready case, $295.

APOLLO

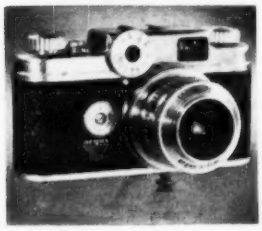


Roll film size 120; 16 exposures, 4¼x6 cm; self-erecting type; coated 75-mm Westler Anastigmat f/3.5 lens; shutter speeds from 1 to 1/200 sec., T & B; delayed action self timer built in below front lens; built-in eye-level finder; body release; depth of field scale; accessory clip. Price, with eveready case, $39.95 including tax.
DIST., General Photographic Supply Co.

ASTRA 35

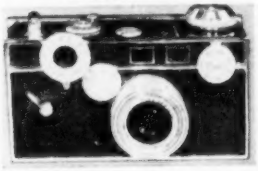
35 mm; single lens reflex; focal-plane shutter from ½ to 1/500 sec.; sports finder; built-in magnifier; body shutter release; built-in F-X synchronization; double exposure prevention; price, with f/1.9 coated Meyer lens, $139.50; f/2 Zeiss Biotar pre-set diaphragm lens, $243.50; f/2.8 Zeiss Tessar pre-set diaphragm lens, $159.50; f/3.5 Zeiss Tessar pre-set diaphragm lens, $134.50.
DIST., Sterling-Howard.

ARGUS C-4



Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/2.8 coated Argus Cintar anastigmat lens; behind-the-lens shutter, 1/10 to 1/200 sec., & B; combined rangefinder and viewfinder, super-imposed image type; built-in flash synchronization with 5 and 20-ms. adjustments; exposure counter; fingertip focusing, 3 feet to infinity; automatic shutter cocking; double-exposure and skip-frame prevention device. Price $99.50. Accessories include eveready case, $7.50; clip-on flash unit with bayonet adapter, $10; flash extension, $3.75.

ARGUS C-3



Cartridge 35 mm; up to 36 exposures 1x1½; 50-mm coated Cintar anastigmat f/3.5 lens; behind-the-lens shutter, 1/10 to 1/300 sec., & B; built-in synchronizer; eye-level finder; coupled rangefinder; exposure counter; film indicator. Price, $69.50 including tax, flash unit, and carrying case. Accessories include slip-on lenses, filters, and lens shade.

ARGUS 75

Rollfilm size 620; 12 exposures, 2¼x2¼; fixed-focus f/13 taking lens; reflex viewfinder with folding metal hood; I & T shutter speeds; body release; built-in synchronization; double exposure prevention device. Price, $15.95 including tax; flash unit, $4.25; carrying case, $2.50. Accessories include slip-on lenses, filters, lens shade.

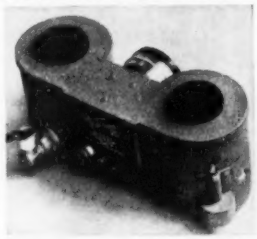
ARGUS 40

Rollfilm size 620; 12 exposures, 2¼x2¼; coated 75-mm anastigmat f/4.5 taking lens; waist-level finder; reflex focusing; shutter speeds from 1/25 to 1/150 sec., B; double exposure prevention device; voluntary double exposure arrangement; built-in synchronization; body release; eveready case. Price, $39.95; eveready case, $4.95; flash unit, $4.25. Prices include tax.
MFR., Argus Cameras, Inc.

ASTRAFLEX II

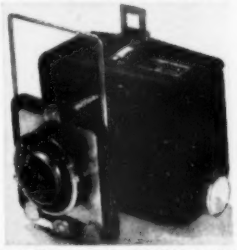
120 roll film; 12 exposures, 2¼x2¼; Zeiss Tessar 105 mm f/3.5 coated lens; depth of field scale; focal plane shutter, 1 to 1/1000 sec., T & B; self-timer; built-in synchronization; eye-level and waist-level finders; exposure counter; price, $179.50. Eveready case, $12.50.
DIST., Sterling-Howard Corp.

AUTO CAMERA MK 3



35 mm; 200 to 300 exposures, 1x1 or ¾x1; 36 mm Wray coated f/3.5 lens; shutter speeds from 1/10 to 1/200 sec., T & B, electrically controlled to 4 frames per second; fixed focusing; 6 special cassettes; built-in flash synchronization; exposure counter; fully automatic pulse-operated data camera; accessories for time-lapse, stereo, photomicrography, etc.; price on request.
DIST., J. A. Maurer Inc.

BACO PRESS CLUB



Sheet film, packs, 2¼x3¼; optional 3½ or 4½-inch lens; collapsible wire frame type finder; groundglass, scale focusing; camera will take 8-inch Tele-Raptar in Rapax, shutter. Price, without lens, $29.50 including tax. Accessories include, interchangeable lenses, tubular viewfinder, slip-on lenses, filters, film adapters, lens shade.

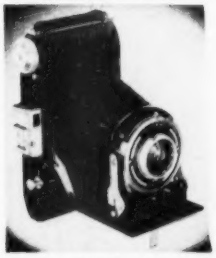
BACO 4x5 DELUXE PRESS VIEW

Sheet film, packs, 4x5; optional lens equipment; 22" bellows extension; fully revolving groundglass back; rising and falling, swinging and tilting lens board. Price less lens, $59.50; no excise tax. Accessories include various tubular finders; deluxe case which takes 12 4x5 holders, flashgun, extra lens, etc., $52.50.
MFR., Baco Accessories Co.

BALDA

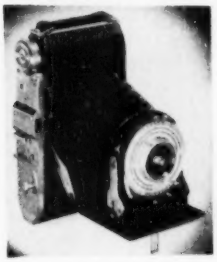
Folding camera; rollfilm size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; 100-mm f/4.5 coated Radionar Anastigmat lens; Prontor S shutter, 1 to 1/300 sec., & B; body shutter release; delayed action timer; built-in flash synchronization; eye-level and waist-level finders; manual focusing; depth of field scale. Price on request.

BALDA 120



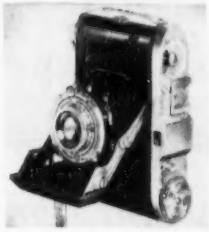
Rollfilm, size 120; 8 2¼x3¼ or 16 2¼x1⅝ exposures; coated 105-mm Enna Ennar f/4.5 lens; Pronto S shutter, speeds 1/25 to 1/200 sec., & B; built-in synchronization; built-in self-timer; eye-level and waist-level viewfinders; manual focusing; tripod socket; cable release socket; body shutter release. Price, $38.50; eveready case, $6.50.

BALDALUX 120



Rollfilm, size 120; 8 2¼x3¼ or 16 2¼x1⅝ exposures; coated 105-mm Schneider Radionar f/4.5 lens; Prontor SV shutter, speeds 1 to 1/250 sec., & B; built-in synchronization; built-in self-timer; double exposure prevention; exposure counter; eye-level and waist-level viewfinders; manual focusing; body shutter release, accessory clip. Price, $49.95; eveready case, $6.50.

BALDINETTE



Folding 35 mm; up to 36 exposures, 1x1½; 50-mm f/3.5 coated Radionar Anastigmat lens; depth of field scale; Prontor SV shutter, 1 to 1/300 sec., & B; built-in flash synchronization; delayed action timer; double-exposure prevention device; body shutter release; eye-level finder; manual focusing. Price, $49.95, inc. tax; eveready case, $7.95.

BALDIX

120 roll film; 12, 2¼x2¼ exposures; Prontor SV shutter; built-in self-timer; 1 to 1/300 sec., B; eye-level finder; depth of field scale; 75-mm coated Ennagon f/3.5 lens; price, $49.95; Eveready case, $6.95.

SUPER BALDINETTE 35

35 mm; to 36 exposures; coupled range finder; Compur Rapid shutter, 1 to 1/500 sec., B; double exposure prevention; price, with 50-mm Schneider-Xenon f/2 lens, $129.95; with

Manufacturers' and distributors' addresses begin on page 194

See the Miniature Graphics....

NO OTHER POPULAR-SIZE CAMERA CAN BOAST SO MANY FEATURES!

Handle the miniature Graphics. These compact, little cameras have all the big features that have made the 4 x 5 Graphic the overwhelming favorite of press and professional photographers everywhere.

They will tackle every challenge you give them and come up with prize-winning shots. No other type camera at any price can do so much, so perfectly. They can be used as simple folding cameras to snap family gatherings or with tilting and shifting lens adjustments, to control linear perspective.

Yet these smaller, lighter-weight Graphics (especially the Crown and Century), are no larger than other versatile precision-made cameras taking 2¼ x 3¼ film. You can carry them wherever you go and shoot to your heart's content. They use an economical film size . . . take sheet, pack, or #120 roll film (color or black-and-white) interchangeably. See them now at your Graflex dealers!

PACEMAKER SPEED GRAPHIC "23"

Precision built, high speed camera with focal plane shutter with accurately governed speeds to 1/1000th; built-in flash synchronization; selector switch for front or rear shutter; coupled range finder (optional at extra cost.) Picture size: 2¼ x 3¼. Price from $237.60.

PACEMAKER CROWN GRAPHIC "23"

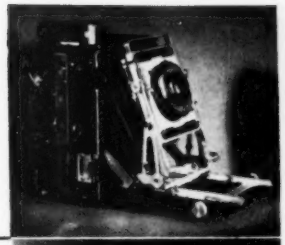
Exactly the same as the Speed Graphic, but without the focal plane shutter. Extremely compact. At prices as low as $197.95.

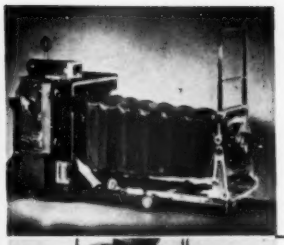
MANY DEALERS OFFER TIME PAYMENTS ON GRAPHIC CAMERAS—AS LITTLE AS $2 PER WEEK!

Prices subject to change

GRAFLEX® *Prize-Winning Cameras*

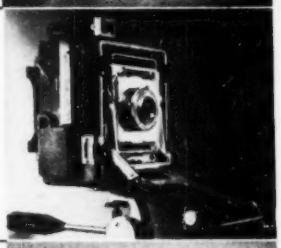
RISING, SHIFTING, TILTING FRONT increases effective depth of field and helps prevent distortion in architectural shots. Front locks securely for maximum rigidity at all times.





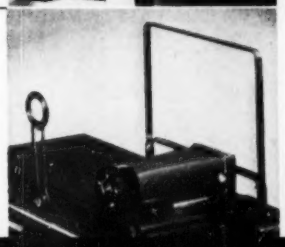
LONG EXTENSION BELLOWS permits extreme close-up photography. Copying 1 to 1 is simple, no special attachments or devices needed. Ground glass insures accurate focus and composition.

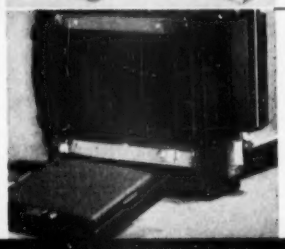
DROP BED takes camera bed out of range of extreme wide angle lens field. Locks rigidly in position, permits rack-and-pinion focusing of wide angle lenses.



REMOVABLE LENS BOARD permits interchanging of lenses. In addition to standard and speed lenses, wide angle and telephoto lenses are available for cramped areas or distant subjects and portraits.

VIEWFINDERS – 2 provided: (1) press type frame viewfinder for rapid action pictures; (2) (optional on Century) eye-level optical finder with interchangeable field of view masks.





GRAFLOK BACK has ground glass for perfect focus and composition. Accepts holders for sheet, roll or pack film, Grafmatic Holder, and Graflarger. Shielded with folding, all-metal, 4-sided, removable hood.

with Every Big Graphic Feature!

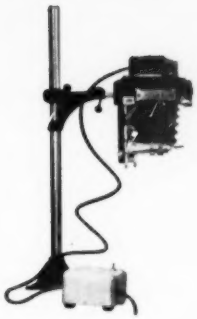
PERFECT FOR VACATION TRAVEL

CENTURY GRAPHIC "23"

. . . with 120 Roll Holder!

With a 120 Roll Holder, the Century is an ideal travel camera. Lightweight, sturdy, it packs neatly, is easy to carry. The most economical of the famous Graphics, it has many of their features, including coated, color corrected Graflex f4.5 lens and synchro-shutter. The 120 Roll Holder is available in two picture sizes: for eight 2¼ x 3¼ or twelve 2¼ x 2¼ pictures. Has automatic film control, counter, and dark slide that permits removal at any time.

Price: Century Graphic with lens and sheet film holder $108.00
Roll holder (extra) 18.95



GRAFLARGER converts your Graphic to precision enlarger. Aristo Cold Grid Light does not harm film, camera, or lens. Doubles as light source for retouching or transparency viewer. Underwriters' Laboratories Approved. Price . . . $35.00. Graflarger Stand, $17.50.

GRAFMATIC takes lightning fast action or sequence shots. Only a little thicker than ordinary film holders, it holds six sheets of black and white, or color film, or both! It cycles rapidly and permits quick changing of emulsions. A wonderful buy at $14.85.

GRAFLITE FLASH attaches to almost any camera. Enables you to get fun-packed shots anytime, anywhere, any weather. Has heavy duty clamps; micro-type, click action switch which contacts without camera movement, 5" or 7" reflectors, 5 outlets. Dependable. Versatile. From $24.05.

FREE! 48 page booklet . . . tells you how to buy a modern camera . . . how accessories let your Graphic grow with your skill.

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Rochester 8, New York

Please send me the new FREE 48 page GRAFLEX booklet.

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City _____

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50-mm Schneider-Xenar f/2.8 lens, $109.95. Eveready case, $8.95.
DIST., Kling Photo Supply Corp.

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BEATTIE PORTRONIC

Automatic portrait-type camera using 70-mm or 35-mm film; 235 70-mm exposures, 2½x3⅜ or 650 35-mm exposures, 1¼x1⅝; coated 6⅛-inch Wollensak Raptar f/6.3 lens in barrel mount; electric shutter set at 1/55 sec.; built-in synchronization; optical eye-level finder; focusing, manual or with groundglass back; magazine loading; automatic identification device. Price, $750; case, $35.
MFR., Photographic Products Inc.

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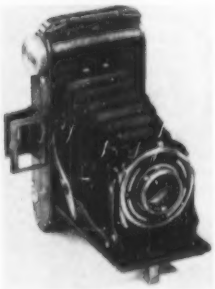
BELFOCA



Folding; rollfilm size 120; 8 exposures, 2¼x3¼; or 12 exposures, 2¼x2¼; f/4.5 coated anastigmat lens; depth of field scale; Prontor shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; delayed action timer; body shutter release; eye-level finder; manual focusing, with provision for zone focusing. Price, $34.50, including tax; case, $5.

BEIRAX

120 rollfilm; 8 exposures, 2¼x3¼; or 16 exposures, 1⅝x2¼; eye-level finder; tripod sockets for vertical and horizontal settings; Meritar coated f/4.5 lens; Automat shutter, 1/25 to 1/100 sec., T & B; price, $34.95.

BELTICA

Folding 35 mm; all-metal construction; up to 36 exposures, 1x1½; f/2.9 coated Meritar or f/3.5 T-coated Zeiss Tessar lens; depth of field scale; synchronized Cludor shutter, 1 to 1/200 sec., T & B, or Compur Rapid shutter, 1 to 1/500 sec., & B, with built-in flash synchronization; exposure counter; eye-level optical finder; manual focusing. Price, with f/2.9 Meritar lens in Cludor shutter, $55 including tax;

with f/3.5 Tessar in Compur Rapid shutter, $75, inc. tax.
DIST., Ercona Camera Corp.

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BINOCA

Sub-miniature using 16-mm film in special daylight-loading magazine; camera is included in a 2.5 power binocular; 40-mm f/4.5 lens, acting as telephoto; shutter speeds from 1/25 to 1/100 sec., & B; angle of camera and field of vision of the binocular are in ratio of 5:2; camera takes what binocular sees; camera is automatically focused at infinity at all times. Price, $32.95, including tax. Film available from distributor.
DIST., Random Corp.

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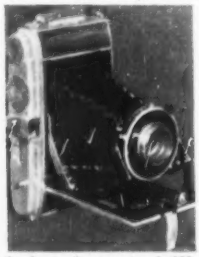
BLOC METAL 45

Roll film size 620; 8 exposures, 2¼x3¼; folding-type camera; 105-mm coated Berthoit f/4.5 anastigmat lens in Prontor synch shutter,



speeds from 1 sec. to 1/200 sec., T & B; delayed action; built-in synchronization; depth of field scale; eye-level finder; manual focusing; cable-release lock. Price, with leather eveready sheath, $60. Accessories include interchangeable lens, slip-on lenses, filters, etc.
DIST., General Photographic Supply Co.

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BOLSEY MODEL A

35 mm; up to 36 exposures; Wollensak 44-mm f/4.5 coated lens; Alph shutter, 1/25 to 1/100 sec., B; built-in FMS synchronization; eye-level finder; manual focusing; price, $39.75. Case, $6.50.

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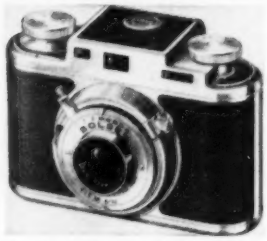
BOLSEY MODEL B

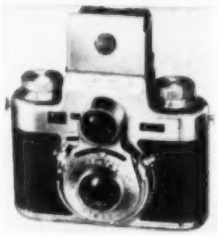


Cartridge 35 mm; up to 40 exposures, 24x36 mm; coated 44-mm f/3.2 Wollensak Anastigmat lens; Wollensak 3-blade shutter, speeds from 1/10 to 1/200 sec., T & B; eye-level finder; exposure counter; scale and helical focusing; coupled rangefinder with two windows for range- and viewfinder; extremely small and compact. Price, $61.50 including tax; eveready case, $7.95. Accessories include slip-on lenses, filters, flashgun and synchronizer.

BOLSEY MODEL B2

Identical to Model B in appearance and equipment; added features include a double-exposure-prevention device, synchronized shutter with internal wiring in the camera; and new screw-on socket for flashgun; depth-of-field scale, and a film-type indicator. Price, $73.50 including tax; eveready case, $7.95.

BOLSEY MODEL C TWIN LENS REFLEX



Cartridge 35 mm; up to 40 exposures, 24x36 mm; matched 44-mm coated f/3.2 Wollensak Anastigmat lenses; depth of field scale; 2-lens reflex camera; Wollensak shutter, speeds from 1/10 sec. to 1/200 sec., T & B; synchronized shutter with internal wiring in camera; reflex focusing and helical focusing; coupled rangefinder; two windows for range- and viewfinder; double exposure prevention device; exposure counter; depth-of-field scale; film speed indicator; film-type indicator. Price, $109.50 including tax; eveready case, $10.50.
MFR., Bolsey Corp. of America.

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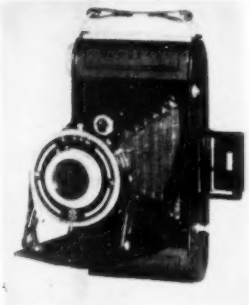
BOWER-35

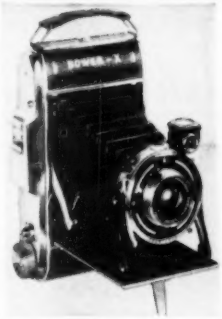
Cartridge 35 mm; up to 36 exposures, 1x1½; coated 45-mm Steinheil Cassar f/2.8 lens; depth of field scale; Prontor-S synchronized shutter, speeds 1 to 1/300 sec., & B; built-in synchronization; also available with Vario, Prontor SV and Synchro-Compur shutters; visual exposure system, by means of colored dots; double exposure prevention; automatic exposure counter; eye-level optical viewfinder; body and lens shutter releases; cable release socket; all-metal construction; tripod socket; recessed lens; manual focusing. Price, with Prontor-S shutter, $43.50; with Vario synchronized shutter, $36.50; with Prontor-SV fully flash synchronized shutter, $47.50; with Synchro-Compur-Rapid shutter, $52.50. Eveready case, $7.50.

BOWER-X MODEL 63



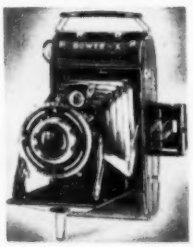
620 roll film; 8, 2¼x3¼ exposures; Steinheil Cassar f/6.3 coated lens; Vario shutter, 1/25 to 1/200 sec., B; built-in FM synchronization; eye-level and waist-level finders; helical focusing; focusing scale; price, $24.95. Case, $6.50.

BOWER-X MODEL II



620 roll film; folding camera; 8 or 12 exposures, 2¼x3¼ or 2¼x2¼; Schneider f/4.5 Radionar coated lens; Vario, Prontor S or Prontor SV shutters, 1 to 1/250 sec., B; eye-level and waist-level finders; focusing scale; helical focusing; built-in synchronization; price, with Vario shutter, $36.50; with Prontor S shutter, $43.50; Prontor SV shutter, $47.50. Eveready case, $7.50.

BOWER-X MODEL I



Rollfilm size 620; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; f/4.5 coated Schneider Radionar lens; synchronized

Manufacturers' and distributors' addresses begin on page 194

Vario shutter, 1/25 to 1/200 sec., & B, or Prontor S shutter, 1 to 1/250 sec., & B, built-in synchronization, and delayed action timer; camera automatically locks out picture sizes not being used; eye-level and waist-level finders; self-erecting front; body shutter release, cable release socket; leather bellows. Price, with Vario shutter, $28.50 including tax; with Prontor S shutter, $34.50. Eveready leather carrying case, $6.50.
DIST., Saul Bower, Inc.

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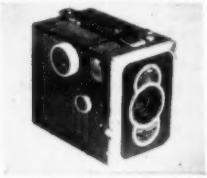
BOX TENGOR

Rollfilm, size 120; 8 2¼x3¼ exposures; coated Goerz Frontar f/9 lens, 3 apertures; rotary-type shutter, speeds 1/30 sec., & B; built-in synchronization; waist-level viewfinders; 3 focus-



ing zones; focusing by means of self-changing supplementary lenses. Price, $17.
DIST., Carl Zeiss, Inc.

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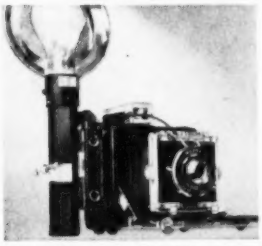
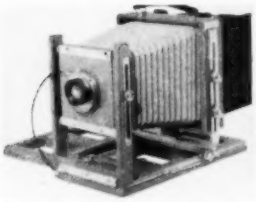
B&J SPEED PRESS 2¼x3¼



Sheet film, packs, 2¼x3¼; optional lens equipment; 8¼" bellows; double extension; parallax-correcting eye-level finder; swings and tilts on lens board; drop bed; calibrated groundglass with four-sided focusing hood; revolving back. Price, less lens, $69.50; with coated 4½-inch Voigtlander f/4.5 lens in synchronized shutter, speeds 1/25 to 1/200 sec., & B, $98.50; deluxe case, $16.95. Accessories include rangefinder, flash equipment, interchangeable lenses, filters.

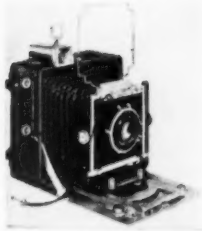
B&J COMMERCIAL VIEW 4x5



Sheet film, packs, 4x5; optional lens and shutter equipment; 20" bellows extension; reversible wood back; rack-and-pinion focusing; double extension bellows; calibrated groundglass with four-sided focusing hood; 5¼x5¼" lens board. Price, less lens, $74.50; 5x7 as above, $84.50, less lens; 8x10, $109.50, less lens; deluxe case, $10.95. Accessories include reducing back.

B&J SPEED PRESS 4x5

Sheet film, packs, 4x5; optional lens equipment; 13" bellows extension; eye-level finder; revolving back; track lock; all-metal body; all swings and tilts on lens board; drop bed; cal-



ibrated groundglass with four-sided focusing hood; focusing scale; 4x4" lens board. Price, less lens, $84.50; with coated 5¼-inch f/6.3 lens in synchronized shutter, speeds to 1/200 sec., $115. Same accessories available as above; price of case the same.
MFR., Burke & James, Inc.

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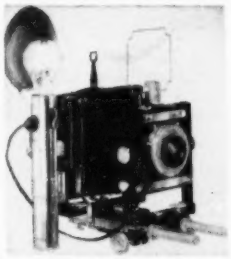
BRAND 17 4x5 UNIVERSAL CAMERA



Sheet film, packs, choice of 4x5, 3¼x4¼, or 2¼x3¼ backs; also 4x5 dividing back; optional lens equipment; takes focal lengths from 3½ to 17 inches; magnesium construction; 17" bellows extension; collapsible wire frame-type finder; front and back swing, rise, tilt; drop bed; scale focusing; revolving groundglass back. Price, with 4x5, 3¼x4¼ or 2¼x3¼ revolving Graphic back, $125; with 4x5 and 3¼x4¼ revolving Graflex back, $125; with 4x5 revolving Graphic dividing back, $140. Accessories: interchangeable lenses, filters, Kalart rangefinder, flash, case, film holders, film hangar.
MFR., Brand Camera Co.

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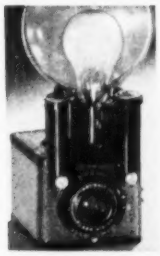
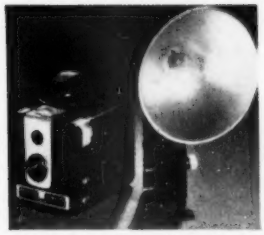
BROWNIE FLASH SIX-20 MODEL



Rollfilm size 620; 8 exposures, 2¼x3¼; meniscus lens; two-position focusing, I & B shutter settings; enclosed eye-level finder; built-in synchronization. Price, with Flasholder unit, $16.05; without Flasholder unit, $13.35. Tax included in both prices. Close-up attachment No. 7A and cloud filter available as accessories.

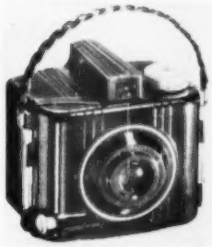
BROWNIE HAWKEYE FLASH

Rollfilm size 620; 12 exposures, 2¼x2¼; 81-mm f/15 fixed focus lens; shutter has speeds which allow it to be used with Class F or Class M flash lamps, and B; shutter release bar flush with camera body; waist-level reflex-type finder. Price, $7.20, including tax.



Kodalite Flasholder, with flashguard, $3.39. Close-up attachment No. 13 and cloud filter available as accessories.

BABY BROWNIE SPECIAL



Roll film size 127; 8 exposures, 1⅝x2½; meniscus lens, instantaneous; fixed focus; enclosed eye-level finder; body-type plunger. Price, $2.85 including tax. Close-up attachment No. 3 available as accessory.
MFR., Eastman Kodak Co.

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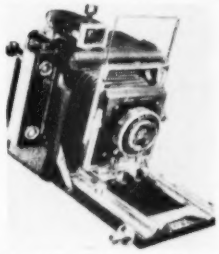
BUSCH PRESSMAN C



Sheet film, pack, 2¼x3¼; lens equipment optional; 9" bellows; eye-level and collapsible wire frame type finders; groundglass and scale focusing. Takes all standard press camera accessories. Price, less lens, $89.60, including tax. Professional case, $36.50.

4x5 PRESSMAN D

Sheet film 4x5, pack 4x5 or 3¼x4¼; compact, all-metal box; available with 127-mm coated Kodak Ektar f/4.7 lens; or 135-mm coated Wollensak Raptar f/4.5 lens in 3 models of Supermatic or Rapax shutters; shutters have built-in syn-

chronization; double extension bellows taper to lens mount; eye-level finder and collapsible wire frame finder with parallax correction on rear sight; groundglass back; manual and scale focusing; coupled rangefinder; combined rangefinder-viewfinder with automatic parallax compensator and electrical focusing beam; revolving back; focusing magnifier; adjustable infinity stops for interchangeable lenses. Price, $105, less lens.
MFR., Busch Camera Co.

•

CANON IV-S2

35 mm; 36 exposures; 24x36 mm; focal-plane shutter, 1 to 1/1000 sec., T & B; built-in synchronization for F, S and focal plane lamps; eye-level finder; magnifies rangefinder and viewfinder images, three positions of magnification for correct views with 50, 100 and 135-mm lenses; coupled rangefinder; exposure counter; film rating selector dial; with Canon 50-mm coated f/1.8 lens, price $295. Also available with Canon f/3.5 lens. Camera, less lens, price, $179.85.
DIST., Balfour, Guthrie & Co.

•

CERTO SUPER II

35-mm; 36 exposures; Compur Rapid shutter with built-in flash synchronization; coupled rangefinder; exposure counter; with Zeiss Tessar coated f/3.5, price $99.50; with Zeiss Tessar coated f/2.8, price $119.50; case included.
DIST., Camera Specialty Co., Inc.

•

CIRO 35S

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Graftar f/3.5 lens in Century shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization for Class F & M lamps; built-in eye-level finder; coupled rangefinder; film counter; accessory clip. Price, $49.05; eveready case, $6.50; flash unit, $5.85.

CIRO 35T

Similar to Model S; equipped with coated 50-mm Wollensak Anastigmat f/2.8 lens in Rapax shutter with speeds from ½ to 1/400 sec., T & B. Price, $89.50.
MFR., Graflex, Inc.

•

COMPCO REFLEX II

Twin-lens reflex; rollfilm size 620; 12 2¼x2¼ exposures; reflex type finder; fixed focus 81-mm doublet lens; I & T shutter speeds; built-in synchronization; body shutter release. Price,

$9.95; eveready case, $2; flash unit, $3.
MFR., Compco Corp.

•

CONTAX IIa

Cartridge or spool 35 mm; up to 36 exposures, 1x1½; bayonet-type lens mount; metal focal-plane shutter with speeds from 1 to 1/1250 sec., B; built-in self timer for 3, 6, 9, and 12-sec.

Manufacturers' and distributors' addresses begin on page 194

How would you BUILD A CAMERA...?

Probably many a photographer, trying a difficult shot, has thought: "Now if I were building a camera, there's one thing I would do..." And some of the ideas born of such musings have eventually found their way into camera design. Take the HASSELBLAD, for example. Precision-crafted in Sweden, it offers built-in refinements that will bring a new range, a new sureness, to your picture taking. Interchangeable film magazines, interchangeable lenses, automatic controls, speeds to 1/1600 second, built-in flash — these are but a few of its features... the kind of features *you* would build into your ideal camera.

Prices: The camera, with 80mm Kodak Ektar f/2.8 Lens and 2¼×2¼ roll-film magazine, $499.50. Accessory 135mm Kodak Ektar f/3.5 Lens, $285, and 250mm Zeiss Opton Sonnar f/4 Lens, $439. Prices include Federal Tax.

HASSELBLAD

The New Swedish Reflex Camera

TRAVELER...?

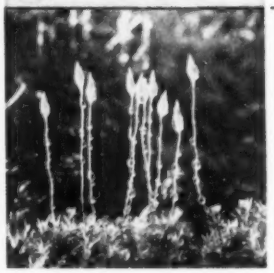
If so — you'll thrill at the "reach" of the Telephoto Lenses that bring distant, inaccessible subjects into working range... thanks to rapid interchangeability of the lenses.

PHOTO-REPORTER...?

If so — you will be quick to exploit the dazzling 1/1600 top speed of the HASSELBLAD... excited at the prospect of freezing action at angles too difficult for slower shutters.

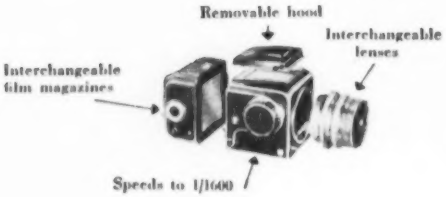
ILLUSTRATOR...?

If so — you will like the quick interchangeability of the roll-film magazines... permitting the use of different film emulsions, color or black-and-white in *one* camera.



NATURALIST...?

If so — you will appreciate the close-working sharpness of the matchless Ektar f/2.8 Lens... focusing down to 20 inches without accessories... and to full scale with extension tubes... and with no worry about parallax.



Write for the descriptive HASSELBLAD booklet to

Willoughbys

WORLD'S LARGEST CAMERA STORE

Dept. A, 110 West 32nd Street • New York 1, N. Y.

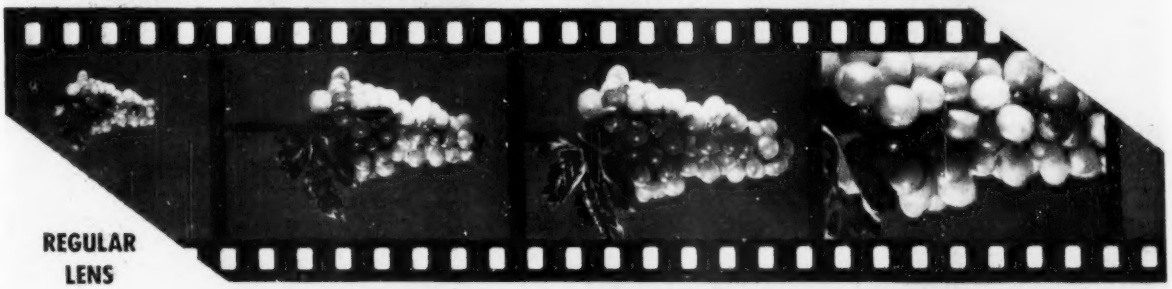
CLOSE-UPS!

Your camera can take them perfectly*

with the PROXIMETER

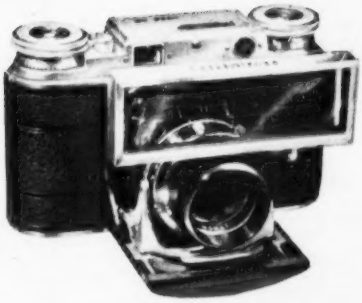
the sharp-focus lens that works as close as 10 inches

HERE IS A VISUAL DEMONSTRATION OF THE RESULTS YOU CAN GET WITH THE PROXIMETER



REGULAR LENS | **PROXIMETER I** | **PROXIMETER II** | **PROXIMETER I and II**

Ideal for technicians, hobbyists, scientists and businessmen



The Proximeter attaches to a lens like a filter. It fastens securely by means of a screw-lock, uses the regular range-finder view-finder of your 35mm camera. Has automatic Parallax compensation. Actually, it's a matched pair of supplementary lenses, the lower one located in front of the taking lens and the upper one in front of the range-finder view-finder. Can be used with or without a tripod.

It's simply terrific for work in the clinic—dental work—photographing detail, copying important papers and maps, police photography, nature studies, photographing miniatures, photographing coins and stamps, flowers or small machine parts — in short, wherever closeup work is required.

Model I is for distances from 38 to 20 inches, and Model II for distances from 20 to 13 inches. The combination of the two models brings the distance down to 10 inches.

PRICES: *Proximeter I or II for:*

*Retina	$24.95
*Kodak Signet	19.95
*Vito III	21.95
*Prominent	26.50
*Contax	40.50
*Leica	30.50
Accessory Adapter Ring for Elmar	$1.45
Accessory Adapter Ring for Summar	1.45
Accessory Adapter Ring for Summarit	1.45

Mail orders promptly filled. Add postage.

Send for PROXIMETER CIRCULAR

Willoughbys

WORLD'S LARGEST CAMERA STORE

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LOngacre 4-1600

delay; built-in synchronization; film-type indicator; automatic film transport; exposure counter; coupled single-window-type rangefinder; depth of focus guide; tripod socket is now integral part of camera body; made by Zeiss Ikon Stuttgart in U. S. zone of Germany. Price, with coated 50-mm Tessar f/3.5, $334; with coated 50-mm Sonnar f/2 lens, $444; with coated 50-mm Sonnar f/1.5 lens, $488; case, $16. Complete line of accessories available.

CONTAX IIIa

Same as Contax IIA, but with built-in ASA calibrated photoelectric exposure meter. Price, with coated 50-mm Zeiss Tessar f/3.5 lens, $380; with 50-mm Sonnar f/2 lens, $490; with 50-mm Sonar f/1.5 lens, $534. Eveready case, $16. Accessories same as for Contax IIA.

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CONTESSA 35

Cartridge 35 mm; 20 or 36 exposures, 1x1½; 45-mm f/2.8 coated Zeiss Tessar lens; depth of field scale; combined eye-level rangefinder and viewfinder; built-in ASA calibrated photoelectric exposure meter; Compur Rapid shutter, speeds to 1/500 sec., & B; built-in flash synchronization; self-erecting front. Price, $214; eveready case, $12.

CONTINA 35

Similar to Ikonta 35, but with non-coupled optical rangefinder; with Zeiss Tessar f/2.8 lens in Synchro-Compur shutter, 1 to 1/500 sec., price, $126; with Novar f/3.5 lens in Prontor SV shutter, 1 to 1/300 sec., price, $88. Eveready case, $11. Full range of accessories available.
DIST., Carl Zeiss

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CORONET POPULAR 12

Rollfilm sizes 120 or 620; 12 exposures 2¼x2¼; T & I shutter speeds; built-in flash synchronization; reflex viewfinder; Coronac lens. Price on request.

CORONET F/20

Twin lens reflex; rollfilm sizes 120 or 620; 12 exposures, 2¼x2¼; meniscus lens; T & I shutter speeds; built-in synchronization; all metal construction; built-in yellow filter. Price on request.

CORONET CUB

Miniature camera; rollfilm size 828; 8 exposures 28x40 mm; T & I shutter speeds; built-in synchronization; eye-level viewfinder; tripod socket; built-in yellow filter. Price on request.
DIST., General Photographic Supply Co.

•

CURTIS COLOR SCOUT 4x5

Color camera, 1-shot; 2-mirror type; negative size 4x5; takes sheets or filmpack; coated 8½-inch Kodak Ektar f/6.3 lens; No. 33 Ilex Acme Synchro shutter, speeds 1 to 1/200 sec., T & B; Kalart coupled rangefinder; built-in synchronization. Price, including viewfinder; rangefinder; flash gun; six film holders in carrying case; compensating filters for daylight, tungsten, regular and electronic flash; lens shade and filter holder; and fitted compartment carrying case, $955.74.
MFR., Curtis Laboratories, Inc.

•

DACORA

120 rollfilm; 12 exposures 2¼x2¼; built-in synchronization in Vario II shutter, 1/10 to 1/200 sec; double exposure prevention; eye-level optical viewfinder; with Ennar coated f/6.3 lens, price, $29.95; with Ennar coated f/4.5, price, $36.50; with Ennar coated f/3.5 lens in Prontor-S shutter, 1 to 1/300 sec., T & B, self-timer, price $49.50. Case, $6.50.
DIST., Ercona Camera Corp.

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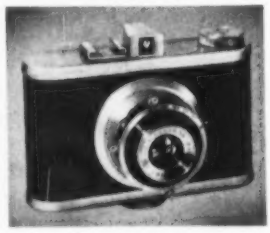
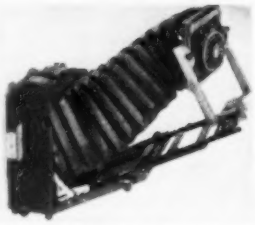
D'ASSAS



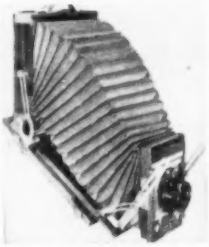
Rollfilm size 120; 12 exposures, 2¼x2¼; 75-mm f/4.5 coated Boyer Topaz Anastigmat lens; Gitzo shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; eye-level finder. Price, $37.50, including tax; case, $7.
DIST., Mimosa-American Corp.

DEARDORFF UNIVERSAL TRIAMAPRO 4x5



Plates, sheet film, filmpack, or adaptable to roll film with holders; supplied with standard spring backs; can be adapted to all synchronous flash and rangefinder equipment; 19-inch bellows; triple extension; lens board rises, lowers, swings vertically and horizontally; double sliding front standard; camera bed rises, lowers, drops completely for wide-angle lenses; separate double extension wide-angle track; metal revolving back; peep sight and wire finder. Price upon request. Fitted case available.

DEARDORFF PRECISION VIEW 4x5, 5x7, 8x10



All similarly built except for size; 18" bellows extension on 4x5 24" on 4x5 Special, 5x7, and 30" on 8x10 model. Prices, without lens equipment, 4x5 Special, $237.80; 4x5 Special with revolving back is $258.48; 5x7 model, $230; 8x10 model, $300. No federal tax applicable. 4x5 Special, 5x7, and 8x10 equipped with double-swing front. Available as accessories are carrying cases, reducing, dividing backs, extra lensboards, Packard shutter adapters.
MFR., L. F. Deardorff & Sons, Inc.

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DEJUR REFLEX DR-10

120 roll film; 12, 2¼"x2¼" exposures; twin lens reflex; DeJur Anastigmat 85-mm f/3.5 coated lens; depth of field scale; DeJur Wollensak shutter, 1/10 to 1/200 sec., T & B; eye-level, waist-level finders; field lens with clear center; price, $99.50. Case price on request.
MFR., DeJur-Amsco Corp.

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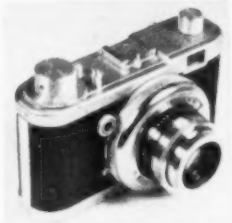
DIAX Ia



Interchangeable lenses; 35 mm; Compur Rapid Synchro shutter with speeds from 1 to 1/500 sec., B, MX synchronization; built-in self-timer; three viewfinders built in for 35-mm, 50-mm, and 90-mm; with Schneider Xenar f/2.8 coated lens, price, $89.95; with Schneider f/3.5 lens, price, $69.95. All available lenses with depth of focus rings.

DIAX II

Similar to Diax Ia but with rangefinder and Schneider Xenon f/2 coated lens; price, $129.95.
DIST. Biber Foto Corp.

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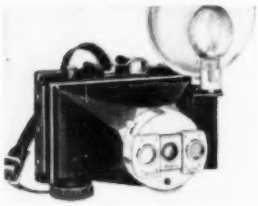
DOVER DUAL LENS FLASH 620A



Roll film size 620; 16 exposures, 1⅝x2¼; Somco meniscus lens; f/stop and shutter speed synchronized, using 5 lens apertures according to exposure chart on camera; dual lens mount with portrait-type lens and filter included; eye-level finder; built-in synchronization; case included. Price, $11.45.
MFR., Dover Film Corp.

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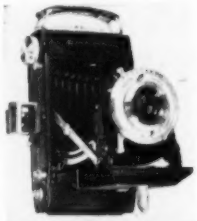
DREPY



Rollfilm, size 120; 8 exposures, 2¼x3¼ or 16 exposures, 2¼x1⅝; coated 105-mm Drestly f/4.5 lens; Drestop shutter, speeds 1/25 to 1/100 sec., T & B; built-in synchronization; delayed action timer; eye-level viewfinder; depth of field scale; film mask. Price, $44.07; case, $5.10.
DIST., Delta Foreign Sales Corp.

•

EAGLE EYE 120

Roll film size 120; 8 exposures, 2¼x3¼; 110-mm Zellar lens; Pho-Tak shutter with I & T shutter settings; plunger-type release; eye-level finder; safety lock on back; all-metal construction. Price, $5.95.
MFR., Pho-Tak Corp.

•

EDINEX

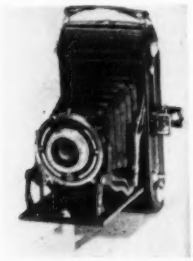
Cartridge 35-mm; up to 36 exposures, 1x1½; helical focusing; tripod socket; cable release socket. Price, with coated f/4.5 lens in Prontor-S synchro-

Manufacturers' and distributors' addresses begin on page 194

nized shutter, speeds 1 to 1/300 sec., & B with self-timer, $29.95; with coated f/2.8 Steinheil lens in Pronto flash shutter, speeds 1/25 to 1/200 sec., & B, self-timer, $37.50; with coated f/2.8 Steinheil lens in Prontor-S flash shutter, speeds 1 to 1/250 sec., & B, self-timer, body shutter release, $45.95; with coated f/2.9 Schneider lens in Prontor-S flash shutter, self-timer, body shutter release, $45.95; eveready case, $5.95.

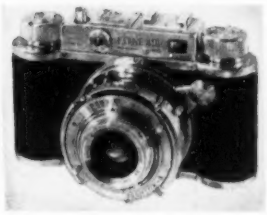
EDINEX 120

120 roll film; 8, 2¼x3¼ or 16, 1⅝x2¼ exposures; eye-level finder; manual focusing; built-in flash synchronization; with f/6.3 lens in Vario shutter, $29.95; with f/6.3 lens in Pronto shutter with self-timer, price, $34.95; with f/4.5 lens in Vario shutter, price, $36.50; with f/4.5 with Prontor-S shutter, price, $42.50.



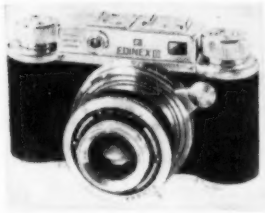
Flashgun, $6.25. Case, $6.75. Holster case, $5.50.

EDINEX III



Similar to Edinex III-S, but with coupled rangefinder; with Steinheil f/2.8 50-mm coated lens in Pronto-S shutter, price, $74.95; with Heligon f/2 lens in Pronto-S MF shutter, price, $104.95. Eveready case, $6.95.

EDINEX III-S



35-mm; up to 36 exposures, 1x1½; eye-level finder; rangefinder; built-in flash synchronization; exposure counter; depth of field guide; with Steinheil f/2.8 Prontor shutter, price, $59.50; with Steinheil f/2.8 Prontor-S shutter, price, $64.50; with Steinheil f/2.8 in Prontor-S-MF shutter, price, $69.50; with Steinheil f/2 in Compur Rapid shutter, $89.50. Case, $6.95.
DIST., Camera Specialty Co.

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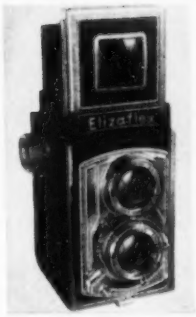
ELIZAFLEX

Twin-lens; 120 rollfilm; 12 or 16 exposures; f/3.5 Eliza lens; shutter speeds, 1 to 1/200 sec, B; selftimer; built-in flash synchronization; magnifier; body release; leather case.



Price on request.
DIST., A.G. Photo Distributors.

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ELMO FLEX III-B

Roll film size 120; 12 exposures, 2¼x2¼; coated 75-mm Zuiko f/3.5 taking lens and Zuiko f/3.5 viewing lens; Seikosha-Rapid shutter with speeds from 1 to 1/500 sec., B; eye-level finder; reflex focusing; depth of field scale; exposure counter; automatic stop film winding; tripod socket; case. Price, $135.
DIST., General Photographic Supply Co.

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ENSIGN SELFIX 12-20

Rollfilm, size 120 or 620; 12 exposures, 2¼x2¼; coated 75-mm Ross Xpres f/3.5 lens; depth of field scale; Epsilon shutter; built-in synchronization; double exposure prevention; helical focusing; self-erecting viewfinder; all-metal construction. Price on request.

ENSIGN SELFIX 16-20/I

Rollfilm, size 120 or 620; 16 exposures, 2¼x1⅝; coated 75-mm Ensar f/4.5 lens; Epsilon shutter, speeds 1/25 to 1/300 sec., T & B; built-in synchronization; direct vision viewfinder. Price on request.

ENSIGN SELFIX 16-20/II

Same as above, but with coated 75-mm Ross Xpres f/3.5 lens. Price on request.

ENSIGN SELFIX 820

Rollfilm, size 120 or 620; 8 exposures, 2¼x3¼ or 12 exposures, 2¼x2¼; available with coated 105-mm Ensar f/4.5 lens or coated 105-mm Ross Xpres f/3.8 lens; depth of field scale; Epsilon shutter, speeds 1 to 1/250 sec., T & B; built-in synchronization; double exposure prevention; all-metal construction; eye-level viewfinder. Price on request.
DIST., Alco Photo Supply Corp.

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EPOCHS

Sub-miniature using special roll-film size; 10 exposures, 14x14 mm; daylight loading rolls; 20-mm Talent lens with fixed diaphragm opening; shutter speeds, 1/25, 1/50, B; built-in eye-level finder; weighs ¼ pound. Price, with case, $9.75.
DIST., General Photographic Supply Co.

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ETARETA CANDID

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm Etar f/3.5 lens; Etaxa shutter with speeds from 1/10 to 1/200 sec., T & B; lens and shutter in collapsible tube with bayonet lock; built-in eye-level finder adjustable to user's eye; automatic film transport and counter; eveready case. Price, $69 including tax. Accessories include lens shade, filters, etc.
DIST., American Equipment Co.

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EXA

35-mm; up to 36 exposures, 1x1½; single lens reflex; Drum type shutter, 1/25 to 1/150 sec., B; built-on synchronization for focal-plane bulbs and electronic flash; eye-level, waist-level finders; helical focusing; exposure counter, depth of field guide; with waist level viewfinder and Ludwig Meritar 50-mm f/2.9 coated lens, price, $89.75; with waist-level finder and Hugo Meyer Goerlitz Trioplan 50-mm f/2.9 coated lens, price, $99.75; with waist-level finder and Zeiss Tessar 50-mm f/3.5 coated lens, $119.75. Eveready case, $9.95; Penta Prism eye-level finder, $50; case for Penta Prism finder, $3.

EXAKTA VX

35-mm single lens reflex; up to 36 exposures, 1x1½; focal-plane shutter, 12 to 1/1000 sec., T & B; self-timer; built-in synchronization FP-MS-X; eye-level, waist-level finder; exposure counter; depth of field guide; with waist-level finder and Zeiss Tessar 50-mm f/2.8 coated lens with preset diaphragm mechanism, price, $279.80; with waist-level finder and Zeiss Biotar 58-mm f/2 coated lens, price, $353.30; Penta Prism eye-level finder, $50; case, $12. Exakta VX with Penta Prism eye-level prismatic finder and built-in coupled rangefinder with Zeiss Biotar f/2, 58-mm lens, price, $400.
DIST., Exakta Camera Co.

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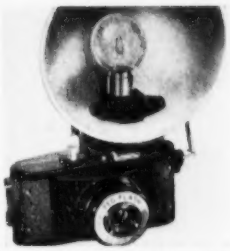
FED-FLASH

Roll film size 127; 8 exposures, 1⅝x2½; 64-mm achromatic meniscus f/15 lens; Federal Flash-matic shutter with 1/40 sec. speed; built-in synchronization; fixed-focus; eye-level finder. Price of camera, $9.75 including tax; flash unit available as



accessory for $2.95 including tax.
MFR., Federal Mfg. & Eng. Corp.

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FERRANIA ELIOFLEX

Rollfilm, size 120; 12 exposures 2¼x2¼; coated 85-mm Galileo Monog f/8 taking lens with stops to f/22; Ferrania Special self-cocking shutter, speeds 1/25 to 1/200 sec., & B; built-in synchronization; helical focusing; mirror reflex finder and wire frame sports finder; exposure counter; exposure guide; double-exposure prevention; all-metal construction; tripod socket, cable release socket; shutter lock. Price, $27; eveready case, $5.50.

FERRANIA RONDINE

Rollfilm size 127; 8 exposures 1⅝x2½; 75-mm f/8.8 Ferrania Linear coated lens; Ferrania shutter, speeds instant (1/75 sec.) and T; built-in flash synchronization; eye-level and waist-level finders; all-metal construction; choice of five colors in leather covering. Price, $14.50 including tax; eveready case, $3. Ferrania folding flash unit, with battery, $6.50.

FERRANIA ASTOR

Folding; 120 film; 2¼x2¼, 12 exposures; with Galileo f/4.5 coated lens; Prontor shutter with speeds from 1

Manufacturers' and distributors' addresses begin on page 194

to 1/300 sec.; built in synchronization for electronic flash and "M" bulbs; double exposure prevention coupled with optical warning in the field of viewfinder; price, $65. Leather case, $8.
DIST., G. A. Buttafarri.

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FLEX-O-CORD

Twin lens; 120 rollfilm; 12 exposures, 2¼x2¼; Flexo coated f/3.5 lens; Flexo shutter, 1/10 to 1/200 sec., T & B; built-in M flash synchronization; waist-level viewfinder; depth of field guide; Eveready case; price, $49.95.
DIST., General Photo Supply Co.

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FLEXO REFLEX MODEL II

Twin-lens reflex; rollfilm size 620; 12 exposures, 2¼x2¼; 75-mm f/3.5 Ennar coated anastigmat lens; depth of field scale; Prontor S shutter, 8 speeds to 1/300 sec., & B; built-in flash synchronization; delayed action timer; ground-glass reflex focusing. Price, $70.95 including tax; Model I has 3 shutter speeds up to 1/200 sec., & B; price, $51.60 including tax. Eveready case, $8.
DIST., Alco Photo Supply.

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FINETTA

Cartridge 35 mm; up to 36 exposures, 1x1½; 43-mm f/4 coated Finetar lens; shutter speeds from 1/25 to 1/100 sec., & B; built-in flash synchronization; double exposure prevention device; automatic film stop and exposure counter; optical eye-level finder; helical focusing; interchangeable lens mount; all-metal construction. Price, $29.95. Accessories available.
DIST., The Bennett Co.

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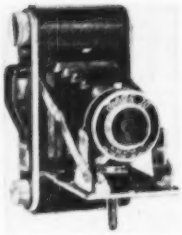
FOLDEX 120

Roll film size 120 or 620; 8 exposures, 2¼x3¼; 105-mm Octvar lens; built-in eye-level viewfinder; shutter speeds, 1/50, B; built-in synchronization; accessory clip for flash unit; body re-



lease. Price, $18.75 including tax; case, $3.95; flash attachment, $3.95.
MFR., Pho-Tak Corp.

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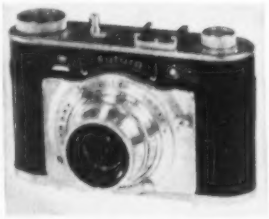
FUTURA P



35-mm; up to 36 exposures, 1x1½; Futar Anastigmat 45-mm f/3.5 coated lens; Prontor SV Synchro shutter, 1 to 1/300 sec., T & B; built-in synchronization FMS; self-timer; eye-level finder; coupled rangefinder; interchangeable lenses; price, $98.75. Case, $11.50. Futura P with Schneider-Xenar 45-mm f/2.8 lens, price, $129.50.

FUTURA STANDARD

35-mm; up to 36 exposures, 1x1½; Evar Anastigmat 50-mm f/2 coated lens; depth of field scale; Compur Rapid Synchro shutter, 1 to 1/400 sec., T & B; built-in SMF synchronization; eye-level finder; coupled rangefinder; self-timer; interchangeable lenses; price, $144.75. Eveready case, $11.50. Futura Standard with Schneider-Xenar f/2.8 lens, $139.45; with Elor f/2.8 lens, $127.95; with Frilon f/1.5 lens, $197.27.

FUTURA S

35-mm; up to 36 exposures, 1x1½; Evar Anastigmat 50-mm f/2 coated lens; depth of field scale; Compur Rapid Synchro shutter; 1 to 1/500 sec., T & B; self-timer; built-in synchronization FM; eye-level finder; helical focusing; interchangeable lenses fully coupled to rangefinder; price, $177.50. Eveready case, $11.50. Futura S also available with Frilon 50-mm f/1.5 lens, price, $227.50.
DIST., Futura Camera Corp. of America.

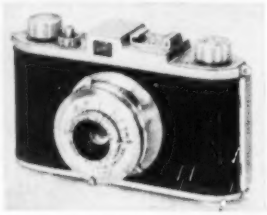
GALILEO CONDOR I

35-mm; up to 36 exposures, 1x1½; Galileo Eliog 50-mm f/3.5 coated lens; Galileo Iscus Rapid shutter, 1 to 1/500 sec., B; built-in flash synchronization FS; eye-level finder; coupled rangefinder; exposure counter; double exposure prevention; rangefinder with image magnification control; price, $89; case, $7.

GALILEO CONDOR II

35-mm; 36 exposures, 1x1½; Galileo Esaog 50-mm coated lens; Galileo Iscus Rapid shutter, 1 to 1/500 sec., B; built-in FMS flash synchronization; eye-level finder; coupled rangefinder; single rangefinder-viewfinder window; exposure counter; depth of field guide; one frame film advance lever which cocks shutter; double exposure prevention; ASA & DIN rating dial on film-wind knob; price, $149.75. Case, $10.

GALILEO CONDORETTA



35-mm; up to 36 exposures, 1x1½; Galileo Terog 40-mm f/4 coated lens; Galileo Aplon shutter, 1 to 1/300 sec., B; built-in flash synchronization FS; eye-level finder; helical focusing; exposure counter; double exposure prevention; price, $49.75. Case, $8.
DIST., G. A. Buttafarri.

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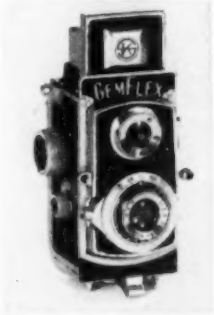
GEMFLEX



14-mm; miniature twin-lens reflex; 10 exposures; Gem Anastigmat f/3.5 25-mm lens; waist-level finder; Swallow shutter, 1/25 to 1/100 sec., B; fixed focus; price, $24.95.
DIST., Schmidt & Co.

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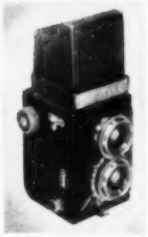
GRACEFLEX



Twin-lens reflex; rollfilm, size 120; 12 exposures, 2¼x2¼; matched coated 80-mm Bessel f/3.5 lenses; gear coupled; shutter speeds 1/10 to 1/200 sec., & B; built-in synchronization; body shutter release; reflex ground-glass focusing; depth of field scale; built-in magnifier; tripod socket; cable release socket; neckstrap and eveready case. Price, $65.
DIST., A. G. Photo Distributors.

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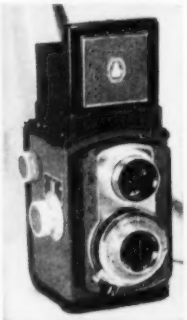
GRAFLEX 22 MODEL 200



Twin-lens reflex; roll film size 120; 12 exposures, 2¼x2¼; with 85-mm Graftar f/3.5 lens; Century XFM shutter, 1/10 to 1/200 sec, T & B; depth of field scale; open-frame finder; 3x magnifier; f/3.2 viewing lens; Field lens installed; color coded synchronization; self erecting hood; shoe outlet for flash synchronization; gray or black finish; price, $89.50. Case, $8.50. Accessories: carrying case; lens hood; flash; lens cover.

GRAFLEX 22 MODEL 400

120 roll film; 12 2¼x2¼ exposure; twin lens reflex; 85-mm f/3.5 coated Graftar lens; Graphex shutter, 1 to 1/400 sec., T & B; built in synchronization FMX; eye-level and waist-level finders; depth of field guide; field lens; price, $124.50. Eveready case, $8.50.

GRAFLEX 22 MODEL 400 F

Similar to Model 400 but fitted with 83-mm f/3.2 Optar lens in XFM synchronized Graphex shutter; speeds 1 to 1/400, T & B. Price on request.
MFR., Graflex, Inc.

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GRAFLEX SUPER D REVOLVING BACK

Sheet film, packs, or roll film, 3¼x 4¼, 4x5; single-lens reflex camera; features interchangeable film attachments and lensboards; focal-plane shutter with speeds from 1/30 to 1/1000 sec., T; built-in synchronization; automatic diaphragm; Ektalite Field lens; filmpack adapter included. Price of 4x5 model with coated 190-mm Optar f/5.6 lens in automatic diaphragm, with pack adapter, $267.25 including tax; 3¼x

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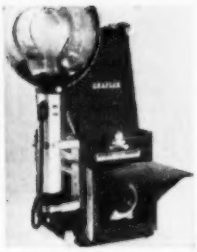
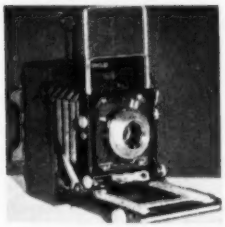


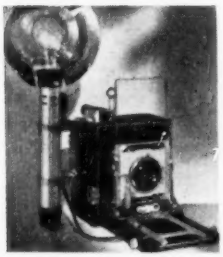
4¼ model with coated 152-mm f/4.5 lens in automatic diaphragm, with pack adapter, $246.75, including tax. Accessories include case, lenses, filters, film attachments, flash unit, focusing panel.

CENTURY GRAPHIC



Sheet film, packs, or roll film, 2¼x3¼; coated 103-mm Graftar Anastigmat f/4.5 lens; Century self-setting shutter with speeds from 1/10 to 1/200 sec., T & B; built-in XFM synchronization; collapsible wire frame finder; manual, scale, and groundglass focusing; film holder included; Graflok back; folding infinity stops; rising, tilting, and laterally shifting front. Price, with film holder, $108.00, including tax. Complete line of accessories available.

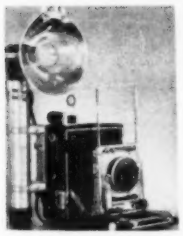
PACEMAKER SPEED GRAPHIC



Sheet film, packs, or roll film, 4x5, 3¼x4¼, 2¼x3¼ sizes; feature interchangeable lensboards; focal-plane shutter with governed speeds from 1/30 to 1/1000 sec.; built-in synchronization; dual control rack-and-pinion focusing; selector switch to set body release for front and back shutter operation; tilting front with vertical and lateral shifts; drop bed; double extension bellows; interchangeable film attachments; folding infinity stops; rising front; Graflok or Graflex back, Ektalite Field lens included in 3¼x4¼ and 4x5 focusing panels. Prices depend on lens and shutter equipment. Accessories include flash, filters, film attachments, rangefinder, lenses, etc.

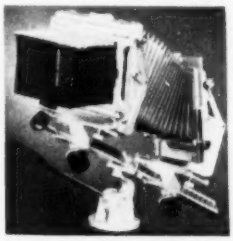
PACEMAKER CROWN GRAPHIC

Sheet film, packs, or roll film, 4x5, 3¼x4¼, 2¼x3¼ sizes; feature the same advantages as the Pacemaker Speed Graphics with exception of the focal-plane shutter. Price depends on lens and shutter equipment. Accessories same as for Speed Graphic.



GRAPHIC VIEW II

Sheet film, packs, 4x5; equipped with 3¼x4¼ or 4x5 Graphic or Graflex backs; each with Ektalite Field lens installed; interchangeable lensboards; 15½-inch bellows draw; identical swings, tilts, and shifts on both front



and back; adjustments made on optical axis; V-section aluminum bed; camera bed combined with pan-tilt head; spirit level; track locks; includes sheet film holder and case. Price, with any one of 4 backs and without lens, $148.50 including tax. Complete line of accessories available.

MFR., Graflex, Inc.

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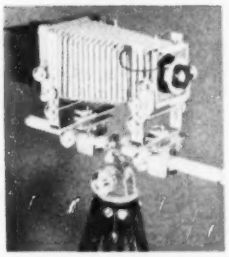
GROVER UNIVERSAL VIEW—4x5



Sheet film, packs, 4x5; optional lens equipment; 21" bellows extension; groundglass back focus; revolving back, all-metal construction; monorail bed, double extension bellows, front and rear focusing; calibrated groundglass with four-sided hood; 4x4 lens board. Price, $94.50; 5x7 with reversible wood back, $109.50 less lens; 8x10, with reversible wood back, $132.50 less lens; deluxe case, $16.95.

MFR., Burke & James, Inc.

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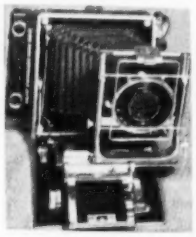
HACON 23



Sheet film, packs, 2¼x3¼; coated 105-mm Schneider-Xenar f/4.5 lens in Compur-syncro shutter from 1 to 1/500 sec., B; delayed action; 9" bellows; eye-level and collapsible wire frame finders; manual scale, and groundglass focusing; movable infinity stops; available in two models: Technica model has revolving and tilting back; drop bed; geared rising lens board; tilting lens board and lateral movement; triple extension bellows, price, $195 plus tax; Standard model has all the above features with exception of revolving and tilting back, price, $169.50 plus tax. Accessories include Kalart rangefinder, or Hugo Meyer.

HACON 45

Sheet film, packs, 4x5; 135-mm f/4.7 coated Schneider Xenar lens in Compur Rapid Synchro Shutter, 1 to 1/500 sec., and B; delayed action timer; eye-level and collapsible wire frame finders; triple extension bellows; revolving and tilting back; groundglass focusing; drop bed; manual focusing scale; geared rising and tilting inter-

changeable lensboard; lateral lensboard movement with worm gear. Movable infinity stops. Accessories include rangefinder and complete assortment of lenses. Price with Kalart or Hugo Meyer R. F., $295.00.

MFR., Haca Supplies.

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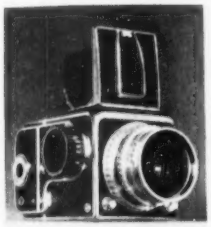
HASSELBLAD



Single-lens reflex camera using roll film size 120; 12 exposures, 2¼x2¼; coated 80-mm Ektar f/2.8 lens with bayonet mount; infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1 to 1/1600 sec., B; built-in synchronization for all types of lamps; reflex focusing; exposure counter; depth of field guide; back detachable to permit sheet film use; body-type shutter release; compact size. Price, $499.50; several cases available, $15 and up.

DIST., Willoughby's.

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HILBA UNIVERSAL 4x5

Press and view; 4x5 sheet film, packs, plates; less lens; 18" bellows extension, minimum 3; groundglass back; revolving back; takes lenses up to 5" diameter and from 3" to 18" in focal length; price, $179. Case, $33.75.

HILBA UNIVERSAL 5x7

Press and view; similar to above. Price, less lens, $224. Case, $37.10.

DIST., Karl Heitz, Inc.

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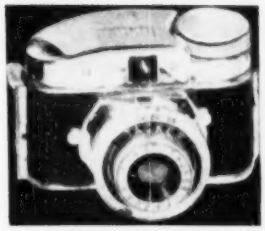
HIT

Sub-miniature using special daylight loading rolls; 10 exposures, 14x14 mm; 20-mm Tacker f/4.5 lens; built-in eye-level finder; leather-over-metal construction; shutter settings, 1/25 sec., & B; weighs 83 grams.



Price, $2.98 including tax.

DIST., General Photographic Supply Co.

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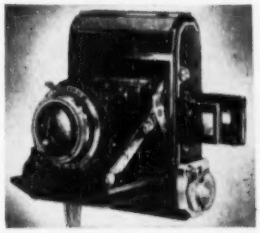
IKONTA A



Roll film size 120; 16 exposures, 1⅝x2¼; same features as Ikonta C. Price, with coated 75-mm Novar f/4.5 lens in Prontor shutter, speeds to 1/300 sec., $60; with Novar f/3.5 lens, $71; with Zeiss Tessar coated f/3.5 lens in Compur Rapid synchronized shutter with speeds up to 1/500 sec., $105. Eveready case, $10.

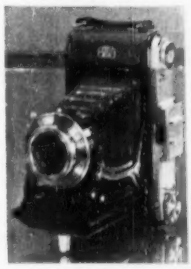
IKONTA IIB

Roll film size 120; 12 exposures, 2¼x2¼; coated 75-mm Novar f/3.5 lens in shutter with speeds from 1 to 1/250 sec., & B; delayed action; or 75-mm Zeiss Novar f/4.5 lens in Synchronized Prontor shutter with speeds from 1 sec. to 1/300 sec., & B; delayed action; built-in synchronization; eye-level finder; scale focusing; depth of field guide; automatic shutter lock; shoe for waist level finder; eveready case. Price, with f/3.5 Novar, $78; f/4.5 Novar, $69; f/3.5 Zeiss Tessar in Synchronized Compur Rapid, speeds from 1 to 1/500 sec., $112. Eveready case, $10. Accessories include slip-on lenses, filters, lens shade.

IKONTA IIIB

Same features as Ikonta IIB, but with non-coupled rangefinder. Price, with coated 75-mm Novar f/4.5 lens in Prontor shutter, speeds to 1/300 sec., with self-timer, $82; with coated 75-mm Novar f/3.5 lens in Prontor shutter, $94; with coated 75-mm Zeiss Tessar f/3.5 lens in Compur Rapid shutter, speeds to 1/500 sec., $126. Eveready case, $10.

IKONTA IIC



Roll film size 120; 8 exposures, 2¼x3¼; Prontor shutter, speeds from 1 to 1/250 sec., & B.; delayed action timer; built-in synchronization; eye-level finder; scale focusing; depth of field guide; automatic shutter lock; body release; eveready leather case. Price, with 105-mm coated Novar f/4.5 lens, $70; with coated Novar

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f/3.5 lens in Compur Rapid shutter, $86; with f/3.5 Zeiss Tessar in synchronized Compur Rapid shutter with speeds to 1/500 sec., $136. Prices include tax. Slip-on lenses, filter, lens shades among accessories. Eveready case, $10.

IKONTA IIIC

Same features as Ikonta IIC, but with non-coupled rangefinder. Price, with coated 105-mm Novar f/4.5 lens in Prontor shutter, speeds to 1/250 sec., with self-timer, $88; with coated 105-mm Novar f/3.5 lens in Prontor shutter, $106; with coated 105-mm Zeiss Tessar lens in Compur Rapid shutter, speeds to 1/500 sec., with self-timer, $150. Eveready case, $10.

SUPER IKONTA A

Roll film size 120; 16 exposures, 1⅝x2¼; coated 75-mm Zeiss Tessar f/3.5 lens in synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; eye-level finder; coupled rangefinder; depth of field guide; automatic shutter lock; body release; eveready leather case. Price, $162. Eveready case, $10. Accessories include slip-on lenses, filters, lens shade, etc.

SUPER IKONTA B

Roll film size 120; 11 exposures, 2¼x2¼; coated 80-mm Zeiss Tessar f/2.8 lens; depth of field scale; synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; built-in synchronization; delayed action timer; eye-level finder; coupled range- and view-finder in one window; film locking device; shutter lock; body release; accessory shoe; eveready leather case, $12. Price, $236. Accessories same as Super Ikonta A.

SUPER IKONTA C

Roll film size 120; 8 exposures, 2¼x3¼; same features as Super Ikonta A. Price, with coated Zeiss Tessar f/3.5 lens in synchronized Compur Rapid shutter with speeds up to 1/500 sec., $186. Eveready case, $12.

SUPER IKONTA BX

Same as Super Ikonta B, but takes 12 exposures, and has a built-in ASA calibrated photoelectric exposure meter. Price, $281; eveready case, $12.

IKONTA 35

Cartridge 35 mm, up to 36 exposures, 1x1½; coated 45-mm Zeiss Tessar f/2.8 lens in synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; eye-level finder; scale focusing; exposure counter; depth of field guide; eveready leather case. Price with Tessar, $120; with 45-mm Zeiss Novar f/3.5 lens in Prontor Synchro shutter, with speeds from 1 to 1/300 sec., & B; delayed action; built-in synchronization, $78; eveready case, $11.

IKOFLEX Ia

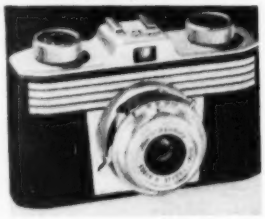
120 roll film; 12 2¼x2¼ exposures; twin lens reflex; synchronized Prontor SV shutter, 1 to 1/300 sec., B; focusing magnifier; automatic film transport stop; body release; with 75-mm coated Zeiss Tessar f/3.5 lens, price, $140; with Novar f/3.5 lens, price, $113. Acessories include prismatic eye-level focusing attachment, slip-on lenses, polarization filter, color filters, lens shade, etc. Eveready case, $12.

IKOFLEX IIa

Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Zeiss Tessar f/3.5 lens; depth of field scale; synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; delayed action; extra bright reflex finder of combined magnifier and Fresnel grating; focusing magnifier; automatic shutter cocking; body release; leather eveready case. Price, $200. Accessories include slip-on lenses, filters, lens shades, etc.; eveready case, $16.

DIST., Carl Zeiss, Inc.

ILOCA QUICK A



35 mm; 36 exposures, 1x1½; 45-mm f/3.5 Ilitar coated lens; Vero shutter, 1/25 to 1/200 sec., B; built-in flash synchronization; double exposure preventive; provision for double exposure if desired; automatic exposure counter; film advance lock; sprocket-less take-up spool; optical eye-level viewfinder. Price, $39.95.

ILOCA II-A

Cartridge 35 mm; up to 36 exposures, 1x1½; 45-mm f/3.5 coated Ilitar lens; Prontor VS shutter, 1 to 1/300 sec., & B; delayed action timer; built-in flash synchronization; optical combination rangefinder and viewfinder; automatic exposure counter; film advance lock. Price, $87; eveready case, $8.50.

ILOCA I-A

Same as above, but with coated 45-mm f/2.9 Ilitar lens and no rangefinder; manual focusing. Price, $57.50; with Vario shutter, 1 to 1/200 sec., & B, and built-in flash synchronization, $44; eveready case, $8.50.

DIST., Ercona Camera Co.

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ISING ISOFLEX

Twin-lens reflex; rollfilm, size 120; 12 exposures, 2¼x2¼; 8-mm Ising Achromat f/7.7 lens; Ising shutter, 1 & T speeds; built-in synchronization; reflex focusing; double exposure prevention. Price, $18.95; case, $5.55.

DIST., Delta Foreign Sales Corp.

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KALART II

3¼x4¼ sheet film, film packs; press type camera; 127-mm Raptar f/4.5 coated lens; Rapax X shutter, 1 to 1/400 sec., T & B; built-in synchronization; combination rangefinder and direct-vision viewfinder; eye-level finder; groundglass and scale focusing; coupled rangefinder; dual focusing knobs; automatic track lock; electric shutter release; built-in Focuspot; built-in remote control; built-in battery compartment; groundglass with hood and magnifier; price, with flash reflector, $295. Accessories include wide-angle, telephoto lenses; extension flash and carrying case.

MFR., The Kalart Co.

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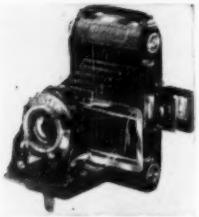
KINAX NORMANDY

Rollfilm, size 620; 8, 12, or 16 exposures, with proper masks; coated 100-mm Berthiot Bellor f/3.5 lens; depth of field scale; Kinax set and release shutter, speeds 1 to 1/350 sec., & B; built-in synchronization; built-in self-timer; mirrored eye-level finder; manual focusing; double exposure prevention; parallax adustment; 2 film masks; tripod socket;



cable release socket; all-metal construction. Price, $76; sheath case, $6.95.

KINAX ARDENNES

Same as above, except with coated 105-mm Berthiot Special f/4.5 lens and optical eye-level viewfinder. Price, $57.50; sheath case, $6.95.

KINAX RIVIERA

Similar to above, but takes only 8 pictures; coated 105-mm Berthiot Kinn f/4.5 lens; Kinax set and release shutter, speeds to 1/350 sec., & B; built-in synchronization; built-in self-timer; optical eye-level viewfinder; parallax adjustment; body shutter release. Price, $49.95; sheath case, $6.95.

KINAX PROVENCE

Similar to above, with same lens and shutter, but without parallax adjustment or self-opening viewfinder. Price, $39.95; sheath case, $6.95.

KINAX ALSACE

Similar to above, but with coated 100-mm Berthiot Kior f/6.3 lens in Kinax single-action shutter, speeds 1/25 to 1/100 sec., & B; built-in synchronization; manual focusing; optical eye-level and waist-level viewfinder. Price, $28.75; sheath case, $6.95.

KINAX BABY

Similar to above, but with coated, fixed focus meniscus lens; 3 apertures; Kinax shutter with I & B speeds; built-in synchronization for Class M lamps. Price, $22.50; sheath case, $6.95.

DIST., Raygram Corp.

●

KING PENGUIN

Rollfilm, size 120; 8 exposures, 2¼x3¼; 100-mm Orac f/11 meniscus lens; Penguin single-action shutter, speeds 1/30 sec., & B; built-in synchronization; eye-level viewfinder; fixed focus. Price, $19.98; sheath case, $5.50.

DIST., General Photo Supply Co.

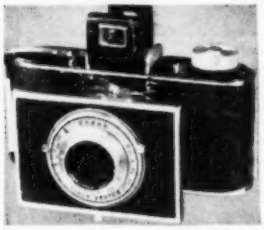
●

KODAK DUAFLEX II

Manufacturers' and distributors' addresses begin on page 194

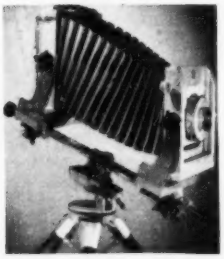
Roll film size 620; 12 exposures, 2¼x2¼; two lens reflex; 75-mm fixed focus Kodet f/15 or 72-mm f/8 Kodar taking lens in focusing mount; viewing lens has wide aperture; I and B shutter speeds; waist-level viewfinder; built-in synchronization; plunger-type body release. Price with Kodet lens, $14.50, including tax. Price with Kodar lens, diaphragm adjustment, focusing mount, and double exposure prevention device, is $22.30, tax included. Accessories include Flasholder and slip-on lenses. Kodak Duaflex Flasholder, $4.25.

KODAK FLASH BANTAM f/4.5



Roll film size 828; 8 exposures, 28x40 mm; 48-mm Lumenized Kodak Anastar f/4.5 lens; shutter speeds from 1/25 to 1/200 sec., T & B; built-in synchronization; lens mount focusing; eye-level finder. Price, $56.00 including tax. Accessories: filed case, flasholder, slip-on lenses, accessory clip, etc.

KODAK MASTER VIEW 4x5



Sheet film, packs, 4x5; all-metal construction; all swings on optical axis; 12-degree swing in either direction front and back on a vertical axis for horizontal correction, 30-degree swing in either direction front and back on a horizontal axis for vertical correction; rising and falling front goes up 3 inches, down 1 inch; ⅞-inch in either direction horizontal slide front and back; back revolves 360 degrees; click stops at all neutral positions; monorail bed; 15-inch bellows draw; integral back spirit level. Price, inc. carrying case, 1 Graphic film holder, less lens, $145. Complete line of lenses, shutters, and accessories available.

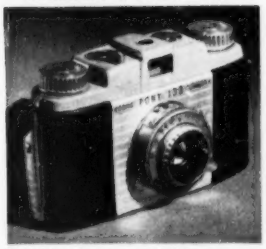
KODAK MEDALIST II

Roll film size 620; 8 exposures, 2¼x3¼; 100-mm Lumenized Kodak Ektar f/3.5 lens; infrared index mark; depth of field scale; Flash Supermatic shutter with speeds from 1 to 1/400 sec., B; eye-level finder with parallax-correcting frame; helical focusing by scale or coupled rangefinder; exposure counter; film-type indicator; double-exposure prevention lock. Price, $304.75 including tax. Accessories include field case, flasholder, accessory back to handle sheet film, plates, and packs; extension units, Kodak filters, Portra lenses, Telek lenses, etc.

KODAK PONY 828

Roll film size 828; 8 exposures, 28x40 mm; Lumenized 51-mm Kodak Anaston f/4.5 lens; depth of field scale; Kodak Flash 200 shutter with speeds from 1/25 to 1/200 sec., B; built-in synchronization; built-in eye-level viewfinder; lens mount focusing; film-type indicator; body release; release lock prevents exposure until lens barrel is in taking position. Price, $31.15 including tax. Complete line of accessories.

KODAK PONY 135



Cartridge 35 mm; up to 36 exposures, 1x1½; 51-mm f/4.5 Lumenized Kodak Anaston lens; depth of field scale; Kodak Flash 200 shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; automatic film stop; automatic exposure counter; optical eye-level finder; lens mount focusing; body shutter release; release lock prevents exposure until lens barrel is in taking position; film-type indicator. Price $35.75, inc. tax. Complete line of accessories available.

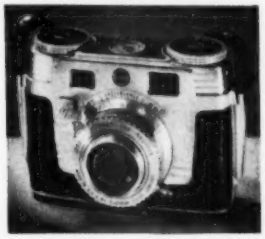
KODAK REFLEX II

Roll film size 620; 2-lens reflex; 12 exposures, 2¼x2¼; Lumenized 80-mm Kodak Anastar f/3.5 taking and viewing lenses, gear coupled; Flash Kodamatic shutter with speeds from 1/2 to 1/300 sec., T & B; built-in synchronization for Class F & M lamps; distance and depth of field scales; eye-level and waist-level finders; reflex focusing; Kodak Ektalite Field lens under groundglass; automatic film stop; film-type indicator; field case with removable front. Price, $161, including tax. Accessories include Kodak 828 adapter, $4.59.

KODAK RETINA IIA

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Schneider Retina-Xenon f/2 lens; depth of field scale; infrared infinity mark; Synchro-Compur shutter, speeds 1 to 1/500 sec., & B; built-in synchronization; leather bellows; coupled rangefinder; combined window for rangefinder and viewfinder; exposure counter; automatic shutter cocking; double exposure prevention; rapid film wind lever. Price, $164.10, inc. tax; leather case, $10.50.

KODAK SIGNET 35



Cartridge 35 mm; up to 36 exposures, 1x1½; 44-mm f/3.5 Lumenized Kodak Ektar lens; depth of field scale; Kodak Synchro 300 shutter, 1/25 to 1/300 sec., & B; built-in flash synchronization; combined coupled rangefinder and viewfinder; exposure guide; automatic exposure counter; film-type indicator; automatic double exposure prevention. Price, $92.50, inc. tax; case, $8.50. Complete line of accessories available.

KODAK TOURIST II ECONOMY MODELS

Rollfilm size 620; 8 exposures, 2¼x3¼; built-in synchronization; eye-level viewfinder; camera bed shutter release. Kodet model has 88-mm Kodet f/12.5 fixed focus lens with stops to f/32 in flash Kodon shutter, speeds I, B & T; price, $26.25 tax included. F/6.3 model has 105-mm Kodak Anaston f/6.3 lens in Kodak Flash 200 shutter, speeds from 1/25 to 1/200 sec., & B; price, $46.25. Accessories include field case, filters, lens hoods, flash holders.

KODAK TOURIST II DE LUXE MODELS

Same basic features as Economy Models, but with depth of field scale, exposure computer, and long base Scopesight Finder. Price, with Lumenized 105-mm Kodak Anaston lens f/4.5 in Flash Kodamatic shutter, speeds 1/10 to 1/200 sec., T & B, $72.55 tax included; with Lumenized 101-mm Kodak Anastar f/4.5 lens in Synchro-Rapid 800 shutter, speeds 1 to 1/800 sec., & B, $97.40 tax included. Accessories include complete line of lens attachments and Kodak Tourist Adapter Kit for 4 different film sizes inc. 828 Kodachrome.

MFR., Eastman Kodak Co.

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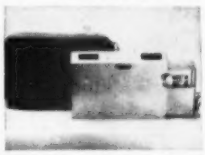
KONAN

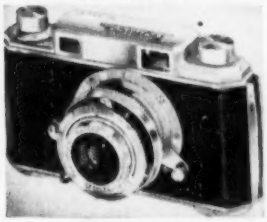


Sub-miniature; 25 exposures on 16-mm film; coated 1-inch Kokker f/3.5 lens; slide shutter, speeds 1/25 to 1/250 sec., T & B; built-in flash synchronization; eye-level viewfinder; fixed focus; removable filter; exposure counter; zipper pouch. Price, $34.95 inc. case.

DIST., Spiratone.

●

KONICA I



35 mm; up to 36 exposures, 1x1½; 50-mm Hexanon f/2.8 coated lens; depth of field scale; eye-level finder Konirapid-S shutter, 1 to 1/500 sec., B; built-in synchronization; coupled rangefinder; exposure counter; price, $99.50. Eveready case, $10.50.

KONICA II

35 mm; up to 36 exposures, 1x1½; 50-mm Hexanon f/2.8 coated lens; depth of field scale; Konirapid-S shutter, 1 to 1/500 sec., T & B; built-in synchronization FMS; eye-level finder; coupled rangefinder and viewfinder; price $149.50. Eveready case, $12.

KONIFLEX

120 or 620 roll film; 12 2¼x2¼ exposures; Hexanon 85-mm coated f/3.5 lens; Seikosha-Rapid shutter, 1 to 1/400 sec., B; built-in synchronization FMS; waist-level finder; reflex focusing; exposure counter; depth of field guide; 3x magnifier for entire groundglass area; price on request.

DIST., Konica Camera Co.

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LEICA IIIf

Manufacturers' and distributors' addresses begin on page 194

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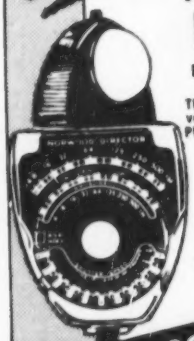

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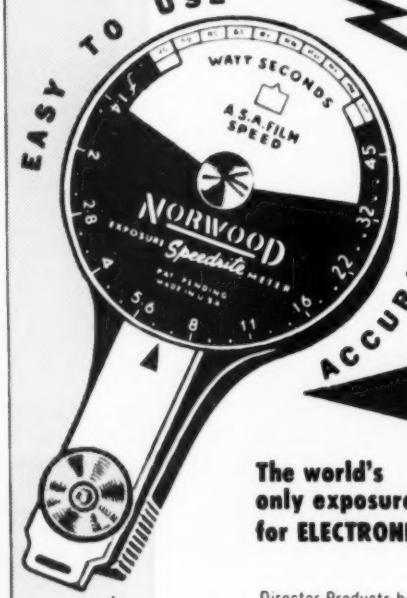

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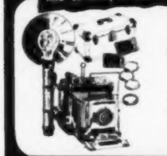

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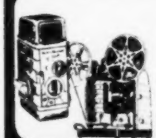

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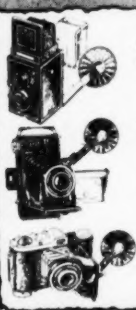

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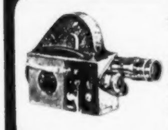

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1" f1.9 Wollensak • 3" f4 Wollensak
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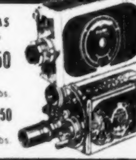

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KODAK BANTAM SPEC, f2 Ektar, RF	125.00	79.50
CONTESSA "35", ¢f2.8 Tessar, RF		119.50
RETINA IIA, ¢f2 Xenon, Auto-Wind, MX Full Synch.	164.10	119.50
KODAK PONY 135, ¢f4.5	35.75	24.50
KODAK SIGNET "35", ¢f3.5 Ektar, Built-In Flash	92.50	64.50
BANTAM FLASH Kodak, ¢f4.5*	56.00	37.50
2¼x3¼ Linhof Super Technika with 101mm Xenar, 65mm Angulon, 180mm Schneider Tele.	575.00	369.00

ROLL FILM CAMERAS		
KODAK TOURIST 620, ¢f4.5*	71.00	39.50
KODAK MEDALIST, ¢f3.5* RF		89.50
ZEISS SUPER IKONTA BX, f2.8 Zeiss Tessar	281	124.00
ZEISS SUPER IKONTA A Special, f3.5 Novar, RF	162.00	69.50
ZEISS SUPER IKONTA B, f2.8 Tessar, RF	149.50	95.00
KODAK MEDALIST II, ¢f3.5 Ektar, Flash Supermatic	304.75	157.50

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ILOCA STEREO II, f3.5 Coated Flash	125.00	84.50
STEREO-REALIST, f3.5	159.50	104.50
BUSCH VERASCOPE, f3.5	269.50	179.50
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DeJUR EMBASSY, ¢f2.5	106.95	59.50
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Revere P85D 8mm Projector, 1" ctd. f1.6 Lens, w/case	124.50	74.50

16mm MOVIE CAMERAS		
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B. & H. AUTOLOAD, 1" ¢f1.9	214.00	99.50

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- High & Low Light Scales

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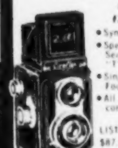
Average Shipping Wt. 3 lbs.



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- With f3.5 Xenar Lens
- Built-in Flash Synch

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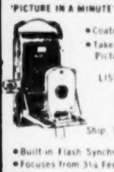

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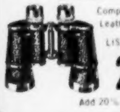

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¢ Coated Lens
* Flash Shutter
RF Coupled Rangefinder

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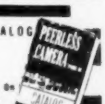


PEERLESS CAMERA

415 LEXINGTON Ave. at 43rd St. N.Y. 17.
Opp. Grand Central Terminal - MU 7-1000

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/2 coated Leitz Summitar lens; depth of field scale; screw mount (interchangeable); focal plane-shutter, speeds from 1 to 1/1000 sec., T & B; built-in adjustable flash synchronization for any focal-plane type flash lamp, or any zero delay electronic flash unit, at all speeds; automatic synchronizing dial; eye-level optical finder; coupled rangefinder; exposure counter; automatic shutter cocking with film advance; accessory shoe clip. Price, $384.20, inc. tax; eveready case, $12.30; Leitz B. C. flash unit for Model IIIf, with cord, $24, inc. tax. Complete line of accessories is available, including interchangeable lenses.

LEICA IIf

Similar to IIIf; up to 36 exposures. 1x1½; coated 50-mm Elmar Anastigmat f/3.5 lens; screw mount (interchangeable); infrared infinity mark; depth of field scale; focalplane shutter with speeds from 1/25 to 1/500 sec., B; built-in flash synchronization; built-in eye-level finder; helical focusing; coupled rangefinder; exposure counter; depth of field guide. Price, $207.40 including tax; eveready case, $12.30. Equipped with Summaron 35-mm f/3.5 lens, $241.40.

LEICA If

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Elmar Anastigmat f/3.5 lens; screw mount; infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1/25 to 1/500 sec., B; eye-level finder; helical focusing; eveready case; exposure counter; depth of field guide; accessory clip. Built-in flash synchronization. Price $136, inc. tax.

DIST., E. Leitz, Inc.

•

LEOTAX D4

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/1.5 coated Nikkor lens; screw mount (interchangeable); depth of field scale; focal-plane shutter, speeds 1 to 1/500 sec., T & B; built-in flash synchronization; exposure counter; optical eye-level finder; coupled rangefinder focusing; leather eveready case. Price, $355 inc. tax. Also available with 50-mm f/3.5 similar lens, $229, inc. tax. Complete line of accessories available.

DIST., Cinema Products.

•

LEOTAX DIII

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Similar f/2 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/500 sec.; built-in eye-level finder; coupled rangefinder; automatic film stop; double exposure prevention device; exposure counter; eveready case. Price, $195 including tax; with coated 50-mm Similar f/3.5 lens, $135.

SEMI LEOTAX

Roll film size 120; 16 exposures 4½x6 cm; 75-mm Wester f/3.5 lens in Konan Rapid shutter with speeds from 1 to 1/200 sec., T & B; eye-level finder; accessory clip. Price, $42.50 including case and tax.

DIST., General Photographic Supply Co.

•

LINDAR

620 roll film; box camera; 12 2¼x2¼ exposures; Lindar f/9.5 lens; spring, self-cocking shutter, 1/25 sec., B; built-in synchronization; waist-level finder; fixed focus; built-in portrait attachment; price, $6.95. Case, $2.50; flashgun, $3.59.

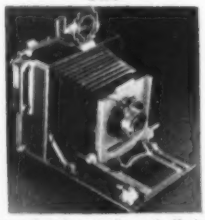
DIST., Saul Bower, Inc.

•

LINHOF SUPER TECHNIKA 4x5

Sheet film, 4x5; optional lens and shutter equipment; depth of field scale; groundglass back; triple extension track; maximum leather bellows extension of 17 inches; drop bed; rising, falling, tilting, swinging, shifting front; tilting, swinging, revolving, interchangeable back; two spirit levels; eye-level and collapsible wire frame finders; focusing scale; all-metal construction. Price, $299.75, less lens, inc. tax. Accessories include Multifocus optical viewfinder, 4x5 Graflex type back, 9x12 cm back, utility case, and interchangeable lenses all coupled to Multifocus rangefinder.

LINHOF SUPER TECHNIKA 5x7

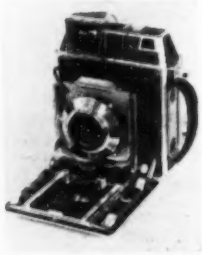


Same features and details as Super Technika 4x5, but with 23-inch maximum and 4-inch minimum bellows draw. Price, less lens, $449.75; fabrikoid covered wooden compartment case, $30. Accessories available include 4x5 reducing back.

LINHOF TECHNIKA IIIB, 4x5

Identical to Super Technika 4x5 in features and details, but without rangefinder. Price, less lens, $224.75.

LINHOF SUPER TECHNIKA 2¼x3¼



Sheet film, packs, 2¼x3¼; rollfilm, size 120, with adapter; press-view camera; each camera equipped with 3 lenses—65-mm Schneider Angulon f/6.8 wide-angle, 105-mm Schneider Xenar f/3.5 normal, and 180-mm Schneider Tele-Xenar f/5.5 telephoto, all coated; all lenses are in Synchro Compur MX fully synchronized shutters, speeds 1 to 1/500 sec., & B; depth of field guide for each lens; coupled rangefinder acts for all three lenses on one cam, which is supplied; groundglass and scale focusing; parallax correction for all lenses; automatic distance scale for all lenses; combined window for rangefinder and viewfinder; swinging, tilting, revolving back; tilting, rising, falling front; triple extension bellows, maximum draw 13 inches, minimum draw 2½ inches; drop bed; multifocus rangefinder built in. Price, with all three lenses, $575. Accessories include case and 120 rollfilm holder.

DIST., Kling Photo Supply Corp.

•

LORDOX

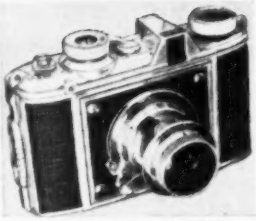
35-mm; up to 36 exposures; Wetzlar Leidon 50-mm f/2.8 coated lens; depth of field scale; Prontor SV shutter, 1 to 1/300 sec., T & B; built-in FXS synchronization; eye-level finder; exposure counter; self-timer; double exposure prevention; manual focusing; price, $49.50.

DIST., Montgomery Ward & Co.

•

LYNX

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated Berthoit Anastigmat f/3.5 lens; focal plane shutter, speeds from 1/25 to 1/500 sec., T & B; delayed action; eye-level chronization; groundglass reflex focusfinder; helical focusing. Price, with



eveready case, $135. Accessories include interchangeable lenses, filters, lens shades, etc.

DIST., General Photographic Supply Co.

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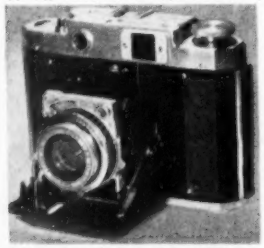
MAMIYA

Roll film size 120; 12 exposures 2¼x2¼; coated Xenar-type f/3.5 lens;



shutter, speeds from 1 to 1/500 sec., T & B; built-in synchronization, eye-level finder; coupled single-window-type rangefinder; exposure counter; hyperfocal distance table; leather case included; automatic film transport; double exposure prevention device; automatic indicator; focusing arrangement moves the film plane within the camera while the lens remains stationary. Price, $95. Accessories include auto-up unit, allowing use of rangefinder to 24 inches, $9.95; flash unit, $9.95; three filters and lens shade, with case, $9.95.

MAMIYA SUPER-16

Sub-miniature, using cartridge 16-mm film; 25-mm f/3.5 coated lens; set-and-release shutter, speeds from ½ to 1/200 sec. and B; built-in flash synchronization; exposure indicator; built-in medium-yellow filter; automatic coupled film advance and shutter cocking; cable release socket; manual focusing with lever; eye-level finder. Price on request.

DIST., Baco Accessories Co.

•

MAMIYAFLEX AUTOMATIC

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; 80-mm f/3.5 coated Zuiko lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; built-in flash synchronization; groundglass reflex and eye-level focusing; exposure counter; automatic operation; single knob for shutter cocking and film advance; magnifier in hood; eveready case; lens cap. Price, $175, inc. tax. Complete line of accessories available.

MAMIYAFLEX JUNIOR

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; 80-mm f/3.5 coated Neocon lens; depth of field scale; Compur Rapid shutter, 1 to 1/300 sec., & B; built-in flash syn-

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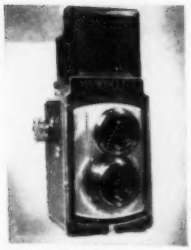


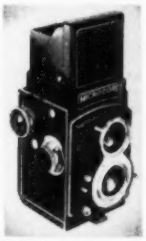
ing; automatic film stop and exposure counter; cable release socket; eveready case; lens cap. Price, $109.50, inc. tax. Complete line of accessories available.
DIST., Cinema Products.

MARKSMAN 120 FLASH

Rollfilm size 120; 8 exposures, 2¼x3¼; meniscus lens; glass enclosed shutter opening; single-action shutter; I & T shutter settings; built-in flash synchronization; flash unit; vertical and horizontal waist-level finders; all-metal construction. Price, $7.95, inc. tax. Same camera, but without built-in synchronization and flash unit, $5.95, inc. tax.
MFR., Pho-Tak Corp.

MASTER REFLEX

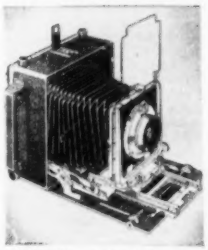
Single-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; f/3.5 coated Meyer Primotar lens in screw mount; depth of field scale; focal-plane shutter, 1 to 1/1000 sec., T & B; delayed action timer; built-in flash synchronization; eye-level and waist-level finders; groundglass reflex focusing; exposure counter; double exposure prevention device; all-metal construction. With f/3.5 coated 85-mm Meyer Primotar, $185; with f/3.5 coated 85-mm Meyer Primotar and pre-set diaphragm, $215; with coated 80-mm Carl Zeiss Tessar f/2.8 and pre-set diaphragm, $250.
DIST., Ercona Camera Corp.



MICROCORD

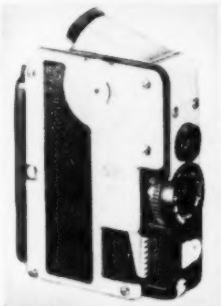
Twin-lens reflex; rollfilm, size 120; 12 exposures, 2¼x2¼; matched coated 75-mm Ross Xpres f/3.5 lens; depth of field scale, Compur type shutter, speeds 1 to 1/300 sec., T & B; built-in synchronization; reflex focusing; tripod socket; bayonet accessory mount; exposure counter; parallax correction. Price, $119.50; eveready case, $12.

MICRO-TECHNICAL 4x5 MARK VI



Sheet film filmpacks, 4x5; press-view camera; lens and shutter equipment optional; triple extension bellows; groundglass focusing; drop bed; wide-angle rack; rising, tilting, and shifting front; 4-way swing back, rotating 360 degrees. Price, less lens and shutter, $199.95. Accessories include focal-plane shutter, coupled rangefinder with interchangeable cam plates to match any lens.
DIST., General Photo Supply Corp.

MINICORD



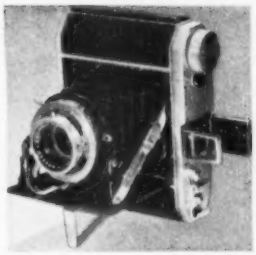
16-mm twin lens; 40 exposures, 10-mm x10-mm; Goerz coated Helgor 25-mm f/2 lens; focal plane shutter with speeds from 1/10 to 1/400 sec., & B; eye-level finder; exposure counter; depth of field guide; reflex focusing; with eveready case; price, $149.50.
DIST., King Photo Import Co.

MINOLTA 35

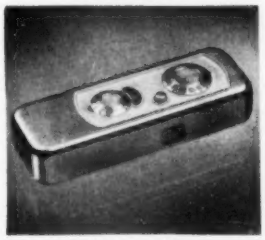
Cartridge 35 mm; up to 36 exposures, 1x1½; 45-mm coated Tessar-type f/2.8 lens, interchangeable; focal-plane shutter, speeds from 1 to 1/500 sec., T & B; built-in synchronization; eye-level finder; coupled single-window-type rangefinder; depth of field guide; exposure counter; hyperfocal distance table and carrying case are regular equipment. Also has automatic double-exposure prevention with automatic film transport and shutter wind. Price, $150. Accessories include filters and lens shade.

SEMI-MINOLTA

Roll film size 120; 16 exposures 1⅝x2¼; 75-mm coated Rokkor f/3.5 lens; Konan-Rapid shutter, speeds from 1 to 1/500 sec. & B; eye-level finder; helical focus; exposure counter; hyperfocal distance table; depth of field guide; automatic double exposure prevention and automatic film transport, eveready case. Price, $45. Accessories include filter, lens shade.
DIST., Baco Accessories Co.

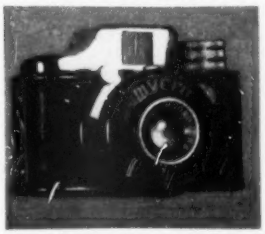


MINOX



Picture size 8x11 mm; 50-exposures in daylight loading cartridge; camera size, ⅝x1x3"; automatic simultaneous shutter winding and film transport; exposure counter; 2 built-in filters, orange and green; focus from 8 inches to infinity; direct viewfinder with automatic parallax correction; lamellar shutter in front of lens with speeds from 1/2 to 1/1000 sec., T & B; coated 15-mm f/3.5 lens. Price, $123, inc. tax; leather case, $3.50; 50-exposure cartridge black and white, $1.01; 24-exposure cartridge color, $1.25; chain attachment, $3.
DIST., Minox, Inc.

MYCRO IIIA



Sub-miniature using 14-mm film; 10 exposures, ½x½ inch; 20-mm f/4.5 lens; Una shutter, 1/25 to 1/100 sec., & B; eye-level finder; fixed focus; eveready case. Price, $9.95 including tax. Leather carrying case, $1.50. Black-and-white and color film available from the distributor. Accessories include tripod, lens shade, filters.
DIST., Cooper Photographic Sales Company.

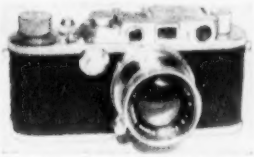
NETTAR IIC

Rollfilm size 120; 8 exposures, 2¼x3¼; f/6.3 coated Novar lens; Vario Synchro shutter, speeds to 1/200 sec., & B; built-in flash synchronization; waist-level finder; manual focusing. Price, $41; case, $7.70.

NETTAR IIB

Rollfilm size 120; 12 exposures, 2¼x2¼; f/4.5 coated Novar lens; Pronto shutter, speeds to 1/200 sec., & B; built-in flash synchronization; delayed action timer; waist-level finder; manual focusing. Price, $49; case, $7.70.
DIST., Carl Zeiss, Inc.

NICCA III



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Nikkor f/2 lens; focal-plane shutter with speeds from 1 to 1/500 sec.; built-in eye-level finder; coupled rangefinder; exposure counter; automatic film stop; double exposure prevention device; rewinding device; eveready case. Price, $215; with coated 50-mm Nikkor f/3.5 lens, $145.
DIST., General Photographic Supply Company.

NIKON

35-mm; 36 exposure, 1x1½; combined coupled rangefinder and eye-level viewfinder; depth of field scale, shutter speeds from 1 to 1/500 sec., T & B; built in synchronization for flash and electronic flash; full opening back with improved film winding; automatic exposure counter; with Nikkor f/2 lens, price, $259; with Nikkor f/1.4 lens, price, $349. Accessories include: lens hood, $9.45 and $10.75; closeup device, $40.25; viewfinders for individual lenses, $10.75, for 35-mm, $12.95; sports finder, $10.85, varifocal viewfinder for use with lenses from 35-mm to 135-mm, $37; carrying case, gadget bag, $56.40, and $58.15.
DIST., Nikon Camera Co., Inc.

NORCA SUPER V

120 roll film; folding camera; 8, 2¼x3¼ or 12, 2¼x2¼ exposures; Steinheil Anastigmat 105-mm f/4.5 coated lens; depth of field scale; Prontor SV shutter, 1 to 1/250 sec., B; self-timer; built-in synchronization FMS; eye-level finder; manual focusing; built-in extinction exposure meter; double exposure prevention; adjustable viewfinder; price, $54.50.

NORCA I

120 roll film; folding camera; 8, 2¼x2¼ exposures; Praxar Achro-

Manufacturers' and distributors' addresses begin on page 194

matic 105-mm f/8 coated lens; single action shutter, 1/25 to 1/75 sec., B; Built-in FM synchronization; eye-level finder; manual focusing; sports viewfinder; price, $19.95.

NORCA II

Similar to Norca Super V but with f/6.3 lens in Vario shutter, 1/25 to 1/200 sec., B; price, $31.50.
DIST., Futura Camera Corp. of America

OLYMPUS I

Cartridge 35 mm; about 20 exposures, 24x32 mm; coated 40-mm Zuiko f/3.5 lens; compur-rapid-type shutter with speeds from 1 to 1/500 sec., T & B; built-in synchronization; exposure counter; double exposure prevention device; eye-level finder. Price, with carrying case, $49.50 including tax.
DIST., General Photographic Supply Co.

OPEMA SYNCHRO

35 mm; 40 exposures, 24x32-mm; Opemar 45-mm f/2 coated lens; focal plane shutter, 1/25 to 1/500 sec., B; built-in sychronization for focal plane bulbs; eye-level finder; rangefinder; exposure counter; price, $99.50. Eveready case, $6.95.
DIST., Sterling-Howard Corp.

PAXETTE

35-mm; up to 38 exposures, 1x1½; Kataplast Anastigmat 50-mm f/2.8 coated lens; depth of field scale; Prontor S shutter, 1 to 1/300 sec., B; self-timer; built-in FMS synchronization; eye-level finder; focusing scale; extinction exposure meter built-in; exposure counter; double exposure prevention; price, $54.50. Eveready case, $8.50.
DIST., Futura Camera Corp. of America

PAXINA

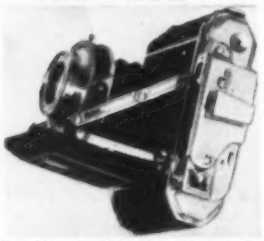
Rollfilm, size 120; 12 exposures, 2¼x2¼; coated f/7.7 Paxanar lens; 3-speed shutter; built-in synchronization; all-metal construction; tripod socket; telescoping front; eye-level viewfinder. Price, $13.95; case, $4.50; flashgun, $4.95.
DIST., Kine Camera Co.

PEARL II

120 roll film; 16 exposures, 1⅝x2¼; Hexar 75-mm coated f/4.5 lens; depth of field scale; Konirapid-S shutter, 1

to 1/500 sec., B; built-in synchronization FMS; eye-level finder; coupled rangefinder; price, $103.25; with Hexar f/3.5 lens, $122.75. Eveready case, $6.75.
DIST., Konica Camera Co.

PETRI MODEL 4



Roll film size 120; 12 exposures, size 2¼x2¼; 75-mm coated f/3.5 Anastigmat lens in Petri Compur shutter, speeds from 1 to 1/200 sec., T & B; delayed action; eye-level and waist-level finders; helical focusing; coupled rangefinder. Price, with eveready case, $48. Accessories include slip-on lenses, lens shade, filters, etc.
DIST., General Photographic Supply Co.

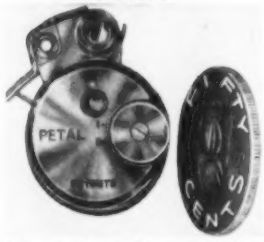
PENTACON

35 mm prismatic single lens reflex; up to 36 exposures, 1x1½; focal-plane shutter, 1 to 1/1000 sec., T & B; self-timer; built-in synchronization for FP bulbs; eye-level finder; helical focusing; exposure counter; depth of field guide; built-in sportsfinder; with 58-mm Zeiss Biotar f/2 coated lens, price, $359.50; with Tessar f/2.8, price, $299.75; with Tessar f/3.5, price, $269.50. Case, $15. Accessories include complete line of telephoto, wide-angle lenses and attachments.
DIST., Pentacon Corp.

PENTA REFLEX

120 roll film; 12, 2¼x2¼ exposures; twin lens reflex; Meritar 75-mm f/3.5 lens; Vario shutter, 1/25 to 1/100 sec., B; built-in synchronization; with Eveready case and flash, price, $39.95.
DIST., Sterling-Howard Corp.

PETAL



Sub-miniature about size of 50-cent piece; uses special load; 6 exposures, 3/16" diameter; f/5.6 lens; single-action shutter set at 1/50 sec., & B; eye-level finder; fixed focus. Price, $9.95. Case, $1.
DIST., Mycro Camera Co., Inc.

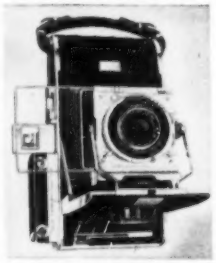
PHOTAFLEX

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; coated 80-mm Doimer f/3.5 lens; depth of field scale; Prontor-type shutter, speeds 1 to 1/200 sec., & B; built-in synchronization; reflex focusing; tripod socket; cable release socket. Price, $39.95, inc. case.
DIST., General Photo Supply Co.

PLAUBEL MAKINA III

2¼x3¼ roll film, sheet film, film packs and plates; folding camera; Compur shutter, 1 to 1/200 sec., T & B; direct-vision viewfinder; wire frame finder; with 100-mm Anticomar f/2.9 lens; price, $325.
DIST., Willoughbys.

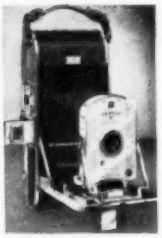
POLAROID PATHFINDER LAND CAMERA 110



Similar to Polaroid Land Model 95, but with f/4.5 Raptar lens; Rapax shutter, with speeds to 1/400 sec.; coupled rangefinder, news-type finder; price, $249.50.

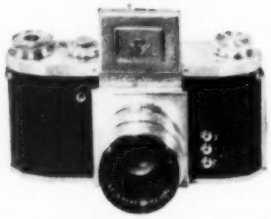
POLAROID LAND MODEL 95

Develops its own pictures in one minute using special 8-exposure, 3¼x4¼ Polaroid Land film. Coupled lens-



shutter setting; built-in synchronization; eye-level finder; scale focusing; camera designed for Land I-step, one minute pictures. Film and camera matched for simplicity and versatility. Price, $89.75 including tax; carrying case, $14.95; master compartment case, $29.75.
MFR., Polaroid Corp.

PRAKTICA FX



Single-lens reflex; 35 mm; up to 36 exposures, 1x1½; depth of field scale; focal-plane shutter, ½ to 1/1000 sec., B; built-in flash synchronization; eye-level and waist-level finders; ground-glass reflex focusing; exposure counter; automatic shutter cocking with film advance; price, with coated f/2.8 Zeiss Tessar lens, $169.50; with coated f/3.5 Zeiss Tessar, $139.50.
DIST., Ercona Camera Corp.

PRAKTICA FX 1953 MODEL

35 mm; single lens reflex; up to 36 exposures; focal-plane shutter; ½ to 1/500 sec., T; built-in FM synchronization; eye-level and waist-level finders; price, 58-mm f/2 Zeiss Biotar lens, non-pre-set, $149.50; same lens pre-set, $199.50; with f/2.8 50-mm Zeiss Tessar pre-set lens, $169.50; with 50 mm f/2.9 Ludwig Meritar lens, $99.50.
DIST., Ocean Photo Supply Co., Inc.

PRAKTIFLEX FX

35 mm; up to 36 exposures; focal-plane shutter, ½ to 1/500 sec., B; built-in synchronization; eye-level and waist-level finders; reflex focusing; depth of field guide; price, with f/2.9 50-mm Victar coated lens, $99.50; with f/3.5 50-mm Zeiss Tessar

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PHOTOGRAPHY

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Manufacturers' and distributors' addresses begin on page 194

the **NIKON**

accessories

Unparalleled performance . . . a new standard of photographic excellence recognized by all, copied by many, equalled by none. This, the result of 65 years of optical and engineering achievement by Nippon Kogaku KK, culminating in the world's finest lenses, the foremost 35 mm camera. You'll want to own the latest achievement by Nippon Kogaku—the f/2.5 wide angle Nikkor lens, fastest and finest in its field.

the **NIKKOR** lens

Shown above: Nikon camera, flash unit, reflectors, gadget bag, varifocal view finder, close-up device, individual view finder, sunshade and filter ring, Nikkor f/2.5 wide angle, 85 mm and 135 mm telephoto lenses. Not shown: other lenses, hoods, finders and cases. Write for complete accessory list.

NIKON CAMERA COMPANY, INC., 25 CALIFORNIA ST., SAN FRANCISCO, CALIF.

coated, pre-set diaphragm lens, $139.50; with f/1.9 58-mm Meyer Primo-plan coated lens, $139.50; with f/2.8 50-mm Zeiss Tessar coated, pre-set diaphragm lens, $169.50; with f/2, 58-mm Zeiss Biotar coated, pre-set diaphragm lens, $220.
DIST., The Praktica Co., Inc.

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PRECISA

120 rollfilm; 12 exposures, 2¼x2¼; or 16 exposures, 1⅝x2¼; optical eye-level viewfinder; body shutter release; coated f/3.5 anastigmat lens in Automat shutter, 1/25 to 1/100 sec., T & B; price, $39.95.
DIST., Ercona Camera Corp.

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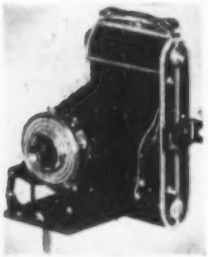
PRESTO



Folding; rollfilm size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; all-metal construction; leather bellows; eye-level viewfinder; manual focusing; built-in self-timer; tripod socket; cable release socket; body shutter release. Price, with coated f/4.5 lens in Vario flash shutter, speeds 1/25 to 1/200 sec., & B, $36.29; with coated f/4.5 lens in Pronto flash shutter, speeds 1/25 to 1/200 sec., & B, $38.70; with coated f/4.5 lens in Prontor-S flash shutter, speeds 1 to 1/250 sec., & B, $42.50; with coated f/4.5 lens in Prontor-S fully synchronized shutter, speeds 1 to 1/250 sec., & B, $45.95; with coated f/2.8 Steinheil lens in Prontor-S fully synchronized shutter, $45.95. Eveready case, $6.75; holster case, $5.50.
DIST., Camera Specialty Co., Inc.

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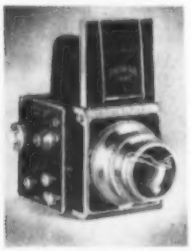
PRIMAR REFLEX II



Roll film size 120; 12 exposures, 2¼x2¼; single-lens reflex; coated 105-mm Zeiss Tessar f/3.5 lens or 100-mm f/2.8 coated Meyer Trioplan lens; screw mounts (interchangeable); focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; delayed action; built-in synchronization; reflex focusing; exposure counter; depth of field guide; magnifier on reflex viewfinder. Price with Tessar, $285; with Meyer Trioplan, $265; case, $17.50. Accessories include wide-angle and telephoto lenses; flash unit; sheet film holder; extension tubes; adapters.
DIST., Ercona Camera Corp.

RECTAFLEX

Cartridge 35 mm; up to 36 exposures, 1x1½; single-lens reflex type; coated 50-mm Schneider Xenon f/2 lens; depth of field scale on lens mount; interchangeable lenses in bayonet mounts; focal-plane shutter with speed from 1 to 1/1300 sec.; built-in flash synchronization; helical focusing; exposure counter; reflex viewer with Duo-Prism focuser in viewing system. Price, $295; with Beta f/3.5 coated lens, $235; with Schneider Xenon f/2 coated lens, $295; with Angenieux f/1.8 coated lens, $350; with Voigtlander f/1.5 coated lens, $475. All prices include tax.
DIST., Director Products Corp.

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REFLEKTA II

Roll film size 120 or 620; 12 exposures, 2¼x2¼; twin-lens reflex with coated 3-inch Meritar anastigmat f/3.5 lens; Velax shutter with speeds from 1/10 to 1/200 sec., B; built-in synchronization; waist-level finder; reflex focusing; depth of field guide; body release; double exposure prevention device; eveready case. Price, $69.50 including tax.

REFLEKTA II SV

Roll film, 120 size; 12 exposures, 2¼x2¼; twin-lens reflex with coated 3-inch f/3.5 anastigmat lens; new Prontor SV shutter with speeds from 1 to 1/300 sec., M-X flash synchronization; reflex focusing; body shutter release; double exposure preventive; focusing magnifier in hood. Price, $79.95.
DIST., Ercona Camera Corp.

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REGULA IA

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Steinheil Cassar f/2.8 lens; depth if field scale; Synchro-Compur, speeds 1 to 1/500 sec., & B; built-in synchronization; diaphragm and focusing scales visible from top; automatic film transport and exposure counter; double exposure prevention; built-in eye-level viewfinder; body shutter release; cable release socket; tripod socket. Price, $65.50; incl. tax and case.

REGULA IB

Same as above, but with Prontor synchronized shutter, speeds 1 to 1/300 sec., T & B. Price, $55.85; incl. tax and case.

REGULA ID

With coated 50-mm Steinheil Cassar f/3.5 lens. Price, $48.50; incl. tax and case.

REGULA 1 E

With Regulon f/4.5 50-mm lens; Prontor SV shutter, 1 to 1/300 sec., B; price, including case, $42.95.

REGULA 1 F

With Regulon f/4.5 50-mm lens; Vario flash sychronized shutter, 1/25 to 1/200 sec., B; price, including case, $37.50.
DIST., Burleigh Brooks Co.

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RICOHFLEX VI

Twin-lens; 120 rollfilm; adapter for 35-mm available; 12 exposures, 2¼x2¼ on 120 film; 36 exposures on 35-mm film; Riken 80-mm coated f/3.5 lens; Riken shutter, 1/25 to 1/100 sec., B; built-in sychronization for M flash; waist-level viewfinder; with case, price, $50.45. Ricohkin 35-mm back for 35-mm film, price, $18.95.
DIST., Photographic Importing & Distributing Corp.

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ROBOT STAR

35 mm; 55 exposures, 24x24-mm; special rapid sequence camera permits taking up to 48 exposures without rewinding; with Schneider Xenon coated 40-mm f/1.9 lens; depth of field scale; Robot shutter, ½ to 1/500 sec., B; built-in FM synchronization; eye-level finder; exposure counter; price, $249.50. Accessories include underwater housing, remote release, interchangeable lenses; univeral finder for use with lenses from 30 to 150-mm, sports finder; stereo attachment. Case, $13.50.
DIST., Intercontinental Marketing Corp.

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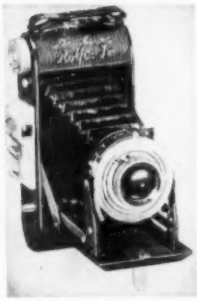
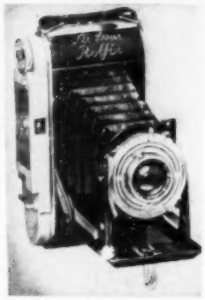
ROLFIX JR. DeLUXE



120 roll film; folding; 8, 2¼x3¼ or 12, 2¼x2¼ exposures; Rodenstock Frankar 105-mm f/4.5 coated lens; Vario shutter, 1/25 to 1/200 sec., B; built-in synchronization; optical eye-level viewfinder; manual focusing; price, $19.95. Case, $4.50.

ROLFIX I DeLUXE



120 roll film; folding camera; 8, 2¼x3¼ or 12, 2¼x2¼ exposures; Schneider Radionar 105-mm f/4.5 coated lens; depth of field scale; Prontor SV shutter, 1 to 1/250 sec., B; self-timer; built-in FMS synchronization; eye-level optical finder; manual focusing; film mask; price, $32.95. Eveready case, $4.50.

ROLFIX II DeLUXE

120 roll film; folding; 8, 2¼x3¼ or 12, 2¼x2¼ exposures; Rodenstock Trinar 105-mm f/3.5 coated lens; Synchro-Compur MX shutter, 1 to 1/500, B; built-in synchronization FMS; optical eye-level viewfinder; manual focusing; film mask; double exposure prevention; price, $49.95. Eveready case, $4.50.
DIST., Montgomery Ward & Co.

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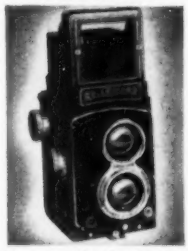
ROLLEICORD MODEL III



Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; coated 75-mm Zeiss Triotar f/3.5 lens; depth of scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., B; eye-level, waist-level and sports finders; reflex focusing; automatic exposure counter and film-locking device; depth of field guide; cable release socket; built-in synchronization with plug-in unit on front panel; eveready case. Price, $139.50, inc. case and tax; with coated 75-mm Schneider Xenar f/3.5 lens, $149.50 inc. case and tax. Accessories include bayonet mounted lenses, film adapters, filters, etc.

ROLLEIFLEX AUTOMATIC

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; coated 75-mm Zeiss Tessar f/3.5 lens; depth of field scale; Synchro-Compur shutter with speeds from 1 to 1/500 sec., B; delayed-action timer; built-in synchronization; eye-level and waist-level finders; large magnifier with cover plate encloses focusing hood; toggle-spring hinge on hood; reflex focusing; exposure counter; impossible to make double exposures; body release provided with cable release socket; eveready case with toggle-spring ac-

Manufacturers' and distributors' addresses begin on page 194

tion; lens cap and cable release. Price, $285, inc. case and tax; with coated 75-mm Schneider Xenar f/3.5 lens, $265, inc. case and tax. Complete line of accessories available.

ROLLEIFLEX 2.8 C

Similar to Rolleiflex f/3.5, but with 80-mm Schneider Xenotar f/2.8 lens; Synchro-Compur shutter, speeds from 1 to 1/500 sec., B; MX flash synchronization built-in; intentional double exposure device; combination back for use with 120 roll film or the Rolleikin 35-mm film adapter; price, with case, $385. Complete line of accessories available.
DIST., Burleigh Brooks Co.

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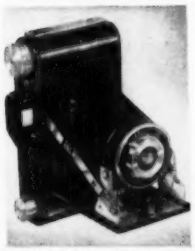
ROLLEX 20



Rollfilm size 120 or 620; 8 exposures, 2¼x3¼; Rollex lens; fixed focus; single-action, non synchronized shutter; eye-level finder. Price, $14.95 including tax.
MFR., Pho-Tak Corp.

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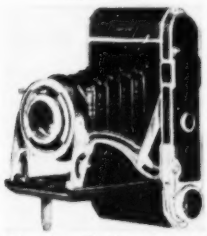
ROYER



Roll film size 620; 8 exposures, 2¼x3¼; coated 105-mm Berthoit anastigmat f/4.5 lens in Prontor II shutter with speeds from 1/10 to 1/200 sec., B; delayed action; built-in synchronization; depth of field scale; built-in eye-level finder; manual focusing; double exposure prevention device. Price, $49.50. Accessories include slip-on lenses, filters, lens shade, etc.
DIST., General Photographic Supply Co.

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RUBINA-SIXTEEN II

Sub-miniature; uses special 16-mm load; 30 exposures; 10x15 mm; coated 25-min anastigmat f/3.5 lens; rim-set shutter with speeds from 1/25 to 1/100 sec., B; built-in eye-level finder; helical focusing; eveready case. Price, $29.95) including tax. Complete line of accessories available.
DIST., Mycro Camera Co., Inc.

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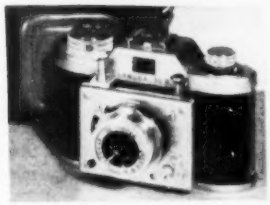
SAMACO II



35 mm; 20 or 36 exposures, 24x36-mm; Ezumar 50-mm coated f/3.5 lens; Samaco shutter, 1/25 to 1/100 sec., B; built-in synchronization for M flash; eye-level viewfinder; focusing scale; exposure counter; price, $29.95; with flash and eveready case, $39.95; eveready case, $5.50.
DIST., Photographic Importing & Distributing Corp.

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SELFIX 820

120 or 620 roll film; Epsilon shutter, speeds from 1 to 1/200 sec. T & B; built-in synchronization; double exposure prevention; depth of field scale; with built-in mask, takes either 8 2¼x3¼ or 12 2¼x2¼ exposures; price, with Ross Xpres 105-mm f/4.5 lens, $71.20; with Ross Xpres 105-mm f/3.5 lens, $80.

SELFIX 16-20 MODEL 1

120 or 620 roll film; 16 1⅝x2¼ exposures; Epsilon four speed shutter, B & T to 1/300 sec.; built-in synchronization; price, with 75-mm Ensar Ross f/4.5 coated lens, $52.

SELFIX 16-20 MODEL 2

120 or 620 roll film; 16 1⅝x2¼ exposures; Epsilon nine-speed shutted, T & B to 1/400 sec.; built-in synchronization; double-exposure prevention; depth of field scale; price, with 75-mm Ross Xpres f/3.5 Anastigmat coated lens, $75.70.

SELFIX 12-20

120 or 620 roll film, 12, 2¼x2¼ exposures; Epsilon nine-speed shutter; T & B to 1/400 sec.; built-in synchronization; double exposure prevention; price with 75-mm Ross Xpres f/3.5 Anastigmat coated lens, $84.25.
DIST., Alco Photo Supply Corp.

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SEMFLEX OCTOMATIC S II

Twin-lens reflex; rollfilm, size 120; 12 exposures 2¼x2¼; matched coated 75-mm Berthiot f/3.5 lenses; depth of field scale; Orec shutter, speeds 1 to 1/400 sec., T & B; built-in synchronization; reflex focusing; self-erecting sports finder; exposure counter; lever film advance; cable release socket; tripod socket; double exposure prevention; plano-convex viewing screen. Price, $139.50; eveready case, $12.50.
DIST., General Photo Supply Co.

SHARP SHOOTER

Roll film size 120; 8 exposures, 2¼x3¼; meniscus lens in rotary shutter; 1/40 second shutter speed and B; waist-level finder; all metal construction. Price, $4.95, including tax.
MFR., Pho-Tak Corp.

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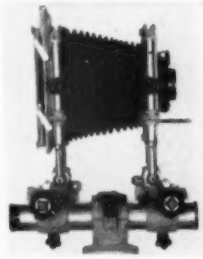
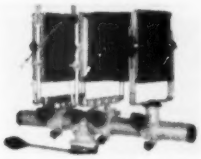
SINAR STANDARD 4x5, 5x7



Sheet film, film packs; 4x5; view camera; takes lenses up to 5-inch diameter and almost any focal length; complete mobility of back and front; interchangeability of frames, bellows, optics, shutters, and standards; levelling and setting controls with rough positioning, fine adjustment and zero marks; optical base tubes on tripod head take flash batteries. Price, less lens and shutter, $349.50. Complete accessories available.

SINAR EXPERT 4x5, 5x7



Sheet film, film pack, 4x5; view camera; will take almost any lens and shutter; complete control of mobility of back and front; universal use except I-shot color work. Complete accessories available to meet any photographic need. Price depends on choice of equipment.
DIST., Karl Heitz, Inc.

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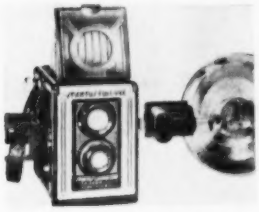
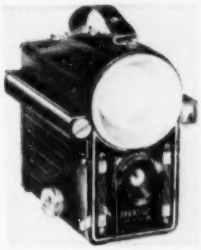
SPARTUS FULL-VUE



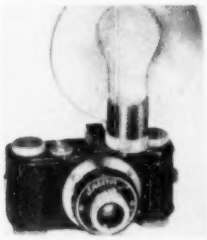
Roll film size 120; 12 exposures, 2¼x2¼; 100-mm meniscus f/16 lens; rotary-type shutter, speed 1/60 second & T; reflex-type finder; fixed focus; shoulder strap. Price, $9.85 including tax; case, $3; flash unit, $2.80.

SPARTUS PRESS FLASH



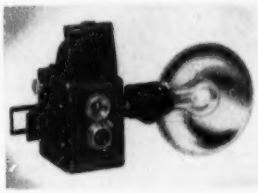
Roll film size 120; 8 exposures, 2¼x3¼; 120-mm meniscus f/16 lens; rotary-type shutter, speed 1/60 second; built-in test unit for flash synchronization; eye-level finder; fixed focus; built-in flash reflector; with 4 flashbulbs. Price, $14.75 including tax; case available at $4.

SPARTUS 35F



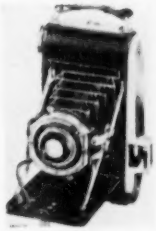
Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm achromatic f/7.7 lens; built-in synchronization; rotary-type shutter, speeds 1/60 sec. & T; built-in filter; exposure counter; eye-level finder; helical focus. Price, $14.65 inc. tax; eveready case, $4; flash unit, $2.80.

SPARTAFLEX



Roll film size 120; 12 exposures 2¼x2¼; 2-lens reflex; taking lens, 100-mm coated achromat f/7.7; rotary-type shutter; 1/60 sec. & T; depth of field scale; built-in synchronization; waist-level and sports-type finders; reflex focusing; depth of field guide; includes flash unit and eveready case. Price, $24.50 inc. tax.

SPARTUS 4 FOLDING CAMERA



Roll film size 120; 8 exposures, 2¼x3¼; meniscus lens; 3 apertures, f/11, f/16, f/22; rotary-type shutter; built-in synchronization; built-in eye-level finder; fixed focus; I & B shutter settings. Price, $14.95 including tax; flash unit, $2.50; case, $2.50.

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SPARTUS BOX CAMERAS 120

No. 20 model gives 8 exposures, 2¼x3¼, on 120 roll film; No. 116 model gives 8 exposures, 2½x4¼, on 116 or 616 roll film; both have meniscus lens; 2 waist-level viewfinders; single-action shutter; I & T shutter settings; fixed focus. Price, No. 120, $5.89 including tax; No. 116, $6.95 including tax; case, $2.
MFR., Herold Mfg. Co.

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SPECTATOR 120 FLASH

Roll film size 120; 8 exposures, 2¼x3¼; 110-mm Zellar lens; Pho-Tak shutter with I & T settings; built-in synchronization; flash unit; built-in eye-level finder; body release; all-metal construction. Price, $7.95 including tax.
MFR., Pho-Tak Corp.

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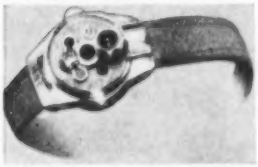
STEINECK A.B.C.

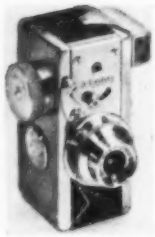


Sub-miniature; uses special film magazine giving 8 exposures; coated 12.5-mm Steinheil f/2.5 lens; rotary focal plane shutter set at 1/125 sec.; fixed focus; wrist-level and eye-level finders; complete with strap to wear on wrist as watch. Price, $150.
DIST., Ercona Camera Corp.

●

STEKY III

Sub-miniature using special magazine with 16-mm film; 24 exposures, 10x14-mm size; 25-mm Stekinar Anastigmat f/3.5 coated lens; behind-the-lens shutter with speeds from 1/25 to 1/100 sec., & B; eye-level finder; fixed focus; automatic film counter; all metal construction; built-in filter. Price, $21.95, including eveready case, lens cap and skyfilter.
DIST., Wilmot Sales Corp.



●

SUPER DOLLINA

Folding 35 mm; coupled split-image rangefinder; Compur Rapid shutter, 1 to 1/300 sec.; flash synchronized; body shutter release; automatic exposure counter; double exposure prevention; with Meyer Tripplan f/2.9 lens, $139.50; with coated Carl Zeiss Tessar f/3.5 lens, $149.50.
DIST., Ercona Camera Corp.

●

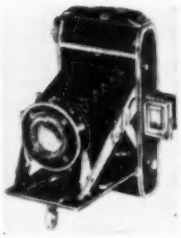
SUPERFLEX

Twin-lens reflex; rollfilm, size 120; 12 exposures 2¼x2¼; coated 80-mm Bessel Anastigmat f/3.4 taking & viewing lenses; shutter speeds 1/10 to 1/200 sec., B; depth of field scale; reflex focusing; built-in flash synchronization; eveready case. Price, $65, inc. case.
DIST., A. G. Photo Distributors.

●

TELKA II

Roll film size 120; 8 exposures 2¼x3¼; 90-mm Manar Anastigmat f/3.5 lens in Prontor II shutter with speeds from 1 to 1/200 sec., T & B; delayed action self timer; built-in synchronization; eye-level finder; helical focusing; built-in automatic exposure calculator; body release. Price, $63.75 including tax.



TELKA I

Similar to above model; equipped with 110-mm Manar Anastigmat f/4.5 lens in Prontor I shutter with speeds from 1/25 to 1/125 sec., T & B. Price, $49.95 including tax; eveready case for Telka cameras, $7.
MFR., J. L. Galef & Son, Inc.

●

TENNAR 620

Roll film 620; 8, 2¼x3¼ exposures; 105-mm coated lens; eye-level finder; manual focusing; built-in flash synchronization; price, $16.75; case, $4.75.
DIST., Camera Specialty Co., Inc.

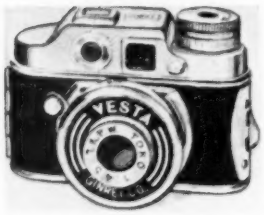
●

TRAVELOR 120

Roll film size 120; 8 exposures, 2¼x3¼; 110-mm Zellar meniscus f/11 lens; single blade shutter with 1/50 second speed, & B; built-in synchronization; eye-level finder; fixed focus; body release. Price, $6.95 including tax; flash unit, $2.95.
DIST., Pho-Tak Corp.

●

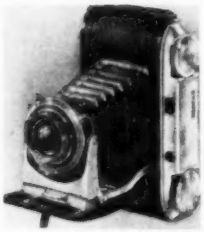
VESTA



Sub-miniature using special 16-mm roll; 10 exposures; 20-mm Toko f/4.5 lens; Vario-type shutter with 1/50 sec. & B settings; built-in eye-level finder; fixed focus; eveready case. Price, $7.95 including tax.
DIST., Camera Specialty Co.

●

VOIGTLANDER RANGEFINDER BESSA II



Roll film size 120; 8 exposures, 2¼x3¼; coated 105-mm Color-Skopar f/3.5 lens; depth of field scale; Synchro-Compur M-X shutter with speeds from 1 to 1/500 sec., B; delayed action; full-flash synchronization; built-in eye-level finder; manual focusing; coupled, one-window-type rangefinder; depth of field guide. Price, $124.50; case, $9.50; with coated 105-mm Color Heliar f/3.5 lens in Synchro-Rapid MX shutter, $168.50.

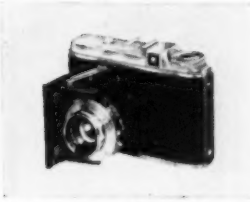
VOIGTLANDER BESSA I

Roll film size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; f/4.5 Vaskar with Prontor SV shutter, 1 to 1/250 sec., & B; built-in flash synchronization; delayed action timer; body shutter release; optical eye-level finder; parallax control; oversized film winding knob; accessory clip. Price, $59.50; with f/3.5 coated Color-

Now! Roll Film also processed

Skopar f/3.5 lens, $76.50; case, $9.50; with Color-Skopar f/3.5 lens with Color-Skopar f/3.5 with Prontor SV fully synchronized shutter, $94.50.

VOIGTLANDER PERKEO I



Similar to above, but with coated Vaskar f/4.5 lens in Pronto shutter, speeds 1/25 to 1/200 sec., & B; built-in synchronization; built-in self-timer; depth of field scale; tripod socket; cable release socket; body shutter release; telescopic viewfinder; automatic interlock device. Price, $39.50; case, $6.50.

VOIGTLANDER PERKEO II

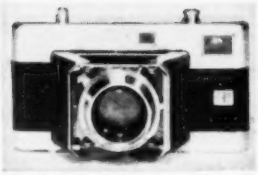
Roll film, size 120 or 620; 12 exposures, 2¼x2¼; coated Color-Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter, speeds 1 to 1/500 sec., & B; MX; double exposure prevention; exposure counter; cable release socket; tripod socket; telescopic viewfinder. Price, $76.50; case, $6.50.

VOIGTLANDER PROMINENT

Cartridge 35 mm; up to 36 exposures, 1x1½; interchangeable lenses; coupled rangefinder; automatic shutter cocking and film advance; depth of field scale; body shutter release; built-in self timer; Price, with coated 50-mm Nokton f/1.5 lens in Compur Rapid MX shutter, speeds 1 to 1/500 sec., & B, $275; with coated 50-mm Ultron f/2 lens in Compur Rapid MX shutter, $225. Case, $12.50.

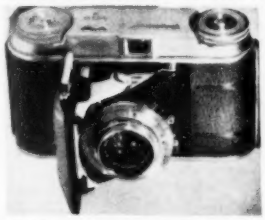
VOIGTLANDER VITESSA

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Ultron f/2 lens; depth of field scale; Compur Rapid MX shutter, speeds 1 to 1/500 sec., & B; coupled rangefinder; combined



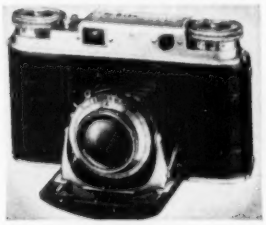
rangefinder and viewfinder window; combined film advance and automatic shutter cocking; automatic parallax compensation; exposure counter; body shutter release; film speed indicator. Price, $159.50; Case, $10.50.

VOIGTLANDER VITO II



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Color-Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., T & B; delayed action; built-in synchronization for class S lamps; built-in eye-level finder; manual and scale focusing; exposure counter; depth of field guide. Price, $61.25; case, $7.75; with f/3.5 Color-Skopar lens in Prontor S shutter with speeds from 1 to 1/300 sec., T & B; built-in synchronization, $54.50.

VOIGTLANDER VITO III



Cartridge 35 mm; 36 exposures; Ultron coated f/2 lens; combined coupled rangefinder and viewfinder; Compur-Rapid MX synchronized shutter, 1 to 1/500 sec.; depth of field scale; film type indicator; automatic exposure counter; price, $159.50. Case, $10.50.

DIST., Willoughbys, Inc.

●

VREDE-BOX

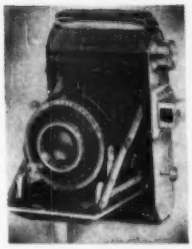
Roll film size 120; box camera; B, 2¼x3¼ exposures; T&B; built-in synchronization; waist-level finder; fixed focus; built-in yellow filter; two diaphragm openings; price, $6.95. Flash unit, $3.50.

DIST., Interstate Photo Supply Co.

●

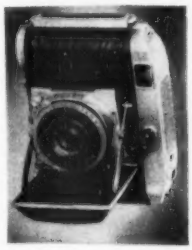
WELTAX

Roll film size 120, 12 exposures, 2¼x2¼; f/3.5 coated Meritar lens; depth of field scale; Prontor S shutter, 1 to 1/250 sec., & B; built-in flash synchronization; body shutter release;



manual focusing; eye-level optical finder with parallax compensator. Price, $59.50, including tax. With f/3.5 T-coated Zeiss Tessar lens in Compur Rapid synchro shutter, 1 to 1/400 sec., & B, and delayed action timer, price $99.50 including tax.

WELTI II



Cartridge 35 mm; up to 36 exposures, 1x1½; f/3.5 T-coated Zeiss Tessar lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; built-in flash synchronization; combined coupled rangefinder and eye-level optical finder; body shutter release; exposure counter. Price, $149.50, including tax.

WELTI

Cartridge 35 mm; up to 36 exposures, 1x1½; T-coated Zeiss Tessar lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; built-in flash synchronization; eye-level optical finder; manual focusing; exposure counter; body shutter release; accessory shoe. Price, $79.50, including tax.

DIST., Ercona Camera Corp.

●

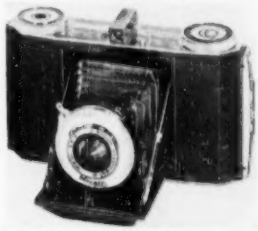
WELLMY

Roll film size 120; 12 exposures 2¼x2¼; 75-mm Torionar f/3.5 lens; shutter speeds from 1 to 1/200 sec., B; body release; accessory rangefinder fits in clip on top of camera; built-in finder. Price, with case, $49.50.

DIST., General Photographic Supply Co.

●

WIRGIN 45



Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Wirgin Anastigmat f/4.5 lens; shutter speeds from 1/25 to 1/125 sec., T & B; other features and make-up similar to the above model. Price, $34.50 plus tax; Wirgin flashing unit, $6.98.

WIRGIN 51

Identical to the Wirgin 45, except has coated 75-mm Wollensak Velostigmat f/4.5 lens; shutter speeds from 1/25 to 1/150 sec., T & B; swing-out roll holders to ease loading; two tripod sockets. Price, $39.50 plus tax; Wirgin flashing unit, $6.98, plus tax.

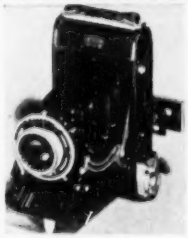
WIRGIN 11

Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Meniscar lens; fixed focus; light-tight hinged back; self-erecting bellows; built-in flash synchronization; eye-level finder. Price, $17.95 plus tax; flashing unit, $3.98, plus tax.

DIST., Camera Specialty Co., Inc.

●

ZEISS IKON ERCONA



Roll film size 120; 8 exposures 2¼x3¼; coated 110-mm f/4.5 Novar anastigmat lens in Prontor S shutter with speeds from 1 to 1/250 sec., B; built-in synchronization; eye-level optical finder; double exposure prevention device; body-type shutter release; manual focusing. Price, $67.50, including tax; case, $7.50.

ZEISS IKON TENAX

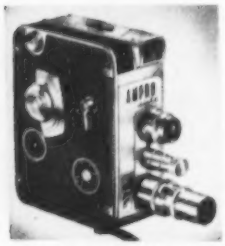
Cartridge 35 mm; up to 50 exposures, 1x1; f/3.5 T-coated Zeiss Tessar lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; trigger-like mechanism advances film and cocks shutter in single operation, permitting sequence photography; exposure counter; eye-level optical finder; manual focusing. Price, $89.50, including tax; with f/3.5 coated Novar lens, price is $66, inc. tax.

DIST., Ercona Camera Corp.

Manufacturers' and distributors' addresses begin on page 194

MOVIE CAMERAS

AMPRO 8 MODEL 350



8 mm silent; magazine loading; 25 ft. capacity double width; six speeds, 12 to 64 frames per second; spring run 10 ft.; visual footage indicator; parallax correcting viewfinder; exposure guide; two-lens turret; selector guide for matching viewfinder to lenses. Price, with f/1.9 coated lens in focusing mount, $189.50; with f/2.5 coated lens in focusing mount, $163.50; case, $11.50.

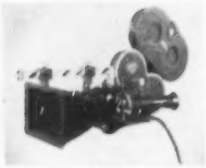
AMPRO 8 MODEL 340

8 mm silent; magazine loading; 25 ft. capacity, double width; single lens model; same features as Model 350. Price, with f/2.5 coated lens in focusing mount, $143.50; case, $11.50; can be converted to turret Model 350.

MFR., Ampro Corporation.

●

ARRIFLEX



16 mm silent; reflex shutter mechanism; groundglass image through lens on camera; 3-lens turret; motor drive; forward and reverse switch; 8 to 48 frames per sec.; footage and frame counters; takes single, double or perforated film; 100-foot capacity; 400-foot magazine available; can be converted to sound. Price on request.

ARRIFLEX 35 MM

35 mm movie camera with features similar to the Arriflex 16. Price on request.

DIST., Kling Photo Supply Corp.

●

AURICON CINE-VOICE

16 mm sound-on-film recording camera; records sound track and picture on same film at same time; black-and-white or color film; 100-foot capacity; 24 frames per second; rotary shutter with 175° angle; 1/50 sec. shutter speed at 24 frames per second; electric motor drive; film arm indicator; large picture optical finder with parallax correction and lens mattes; focusing by lens calibration; interchangeable; 3-lens turret available; uses C-mount type lens. Price, $695 including tax; luggage type case included with camera. Accessories include tripods, qual-phono turntable, microphone stands, synchronous motor, etc.

AURICON-PRO

16 mm sound-on-film recording camera; designed to record both sound and picture on the same film, at the same time; black-and-white or color film; camera is completely silent in operation; records 5½ minutes of talking pictures continuously if desired; driven by synchronous electric motor; can be operated independent

of power lines by means of portable power supply. Price on request.

AURICON SUPER 1200

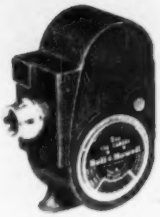
Sound-on-film camera; for long interval recording; instant groundglass focusing through lens on camera; self-blimped for quiet operation; 1200-foot film capacity for 33 minutes of sound-picture taking; variable shutter for fades, dissolves and exposure control; two finders besides groundglass; complete with amplifier, microphone and three carrying cases. Price, less lens, $4,315.65.

MFR., Berndt-Bach, Inc.

●

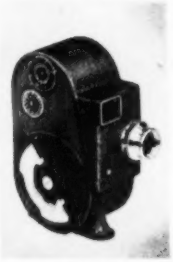
B & H 134-W

8 mm silent; roll loading; capacity 25 ft. double width; 8, 16, 24, 32 frames per second; 160° angle rotary disc shutter; shutter speed at 16 frames 1/35 sec.; spring motor; positive start; rundown stop; useful run 5 ft.; dial footage indicator; built-in eye-level viewfinder with etched frame for standard and telephoto lens fields; interchangeable lenses; built-in exposure guide; wrist cord. Price, with coated B & H ½-inch f/2.5 fixed focus lens in screw mount, $79.95. Available accessories include



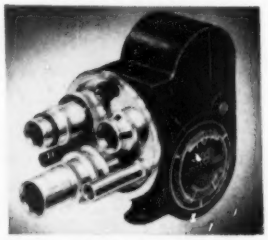
lenses, filters, and lens caps. Sheath case, $8.95; other cases for $9.95 and $18.95.

B & H 134-V



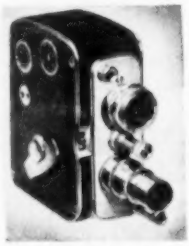
Same as above, except with additional speed of 64 frames per second, automatic film gate, and single exposure device. Price, $89.95. Accessories and cases same as for 134-W.

B & H TRI-LENS 8 (134-TA)



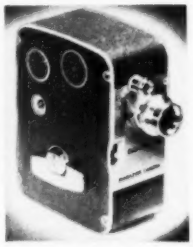
8 mm silent; 25 ft. capacity double width; individually calibrated film speeds of 16, 24, 32, 48, and 64 frames per second; 166° angle rotary disc shutter; positive start and rundown stop; spring run 5 ft.; dial footage indicator; spring motor drive; 3-lens turret with matching positive-type viewfinders; B & H coated .5" f/2.5 lens in screw mount; universal focus; built-in lens shade; built-in exposure guide; single exposure device; critical focuser; automatic film gate. Price, $129.95 including tax; case, $22.95. Available interchangeable lens same as 134-V plus 2" f/3.5 TTH and B & H.

B & H 172-A



8 mm silent; magazine load; 25 ft. capacity, double width; 16, 24, 32, 48, and 64 frames per second; 166° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive; indicator alarm; spring run 9 ft.; dial and visible pointer in viewfinder for footage indication; positive optical built-in eye-level finder; 2-lens turret; B&H coated .5 inch f/2.5 Comat lens in screw mount; universal focus; built-in lens shade; single exposure device; built-in exposure guide; continuous operation lock; viewfinders ride with lenses on turret. Price, $164.95 including tax; sheath-type case, $8.95; candid-type case $9.95; combination case, $22.95. Available interchangeable lenses: 6.5 mm (wide angle) f/1.9; ½-inch f/1.9; ½-inch f/1.4; ½-inch f/2.5; 1-inch f/1.9; 1-inch T 2.1 (f/1.9); 1½-inch f/1.9; 1½-inch f/3.5.

B & H 172-B



Same features as above, but single lens camera; not equipped with indicator alarm or visible pointer in viewfinder for footage indication. Price, with .5-inch f/2.5 coated Comat lens, $134.95. Case and accessories available.

B & H 200

16 mm silent; capacity 50 ft. in magazines; speeds of 16, 24, 32, 48, and 64 frames per second; 133° angle single blade disc shutter; 1/43 sec. shutter speed at 16 frames per second; spring motor with rundown stop; 12-foot useful run; dial-type footage indicator; positive optical built-in eye-level finder; direct through lens focusing; B&H coated 1-inch Comat f/2.5 lens; fixed mount; interchangeable; single exposure device; built-in exposure guide. Price, $189.95 including tax; sheath-type case, $9.95; combination case, $20.95. Accessories available include lenses, filters, thru-the-lens focuser.

B & H 200-T

Same as 200, except has 2-lens turret head; positive optical built-in eye-level viewfinder rides with lenses on turret. Price, $234.95 including tax; Accessories and available lenses are the same as the 200 model.

B & H 70-DL

16 mm silent; roll loading; 100 ft. capacity; adapted to take either single (for sound) or double perforated film; camera speeds of 8, 12, 16, 24, 32, 48, and 64 frames per second;

Manufacturers' and distributors' addresses begin on page 194

another page of AIR PHOTO'S terrific VALUES!

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35mmx100' Convira roll 1.00
SW, G1 #2 . . 3 for 2.75
17⅞ x21¼' Auto Velox, SW, gl f2 . . . 4 gr. 2.00
21¼ x250' Direct Positive SW roll 1.95
67⅞ x250' Aero Contact, SM, SW, #1, 2, 3, & 4 ..... roll 2.95

4x5 CHLORIDE PAPER
A contact paper with wide latitude of exposure and development. Rich black tones. Of famous manufacture, outdated and guaranteed. Glossy single weight. Grades 1, 2 & 4, gross **95c**
Four gross asst'd grades 3.50
20 gross 15.00

10x10 CHLORIDE
We've sold thousands of boxes to price-wise photographers. Guaranteed to save you money. Light wgt., semi-matte, Grades 1 & 4, 3 gross 2.69 gross **98c**

10x10 TYPE IX
Here's a real money saver. Compare it to list price. Guaranteed good. Single weight, semi matte in grades 2 & 3.
3 gross 4.50 gross **1.69**

20x24 CHLORIDE
A little over 1¢ for an 8x10 Sheet. That's what it comes to if you cut your own. Or any size you want. Resisto back (quick drying) single weight, semi-matte. Box packed. Grade #1 & 4. ½ gross **4.85**
3 ½ gross 12.95

7 x 9 Chloride. SW, gl #3 gr. 1.95
9⅞ x 250' Aero Contact SW, SM, #1, 2, & 4 roll 2.75
10x10 Defender Apex, DW, SM, #0, 1, 4 & 5 250 sheets 5.95
22x34 Duophoto XX, thin ½ gr. 3.95

ENLARGING PAPER
14x17 Velour Black, SW gl. #1 & 2, '49 . . 72 6.50
20 x 24 Velour Black SW, SM, #3, '49 . . 72 9.95
8 x 10 Kodabromide, SW, SM, #1, 2 ..... 100 2.69

8 x 10 HALOBROME
GL #2 & 3 . 1000 for 31.50

11 x 14 Velour Black SW, SM, #3 ..... ½ gr. 3.79

AERO ENLARGING
How would you like 3 5x7's for less than 2 cents? That's really keeping costs down. All rolls packed in hermetically sealed cans. Resisto stock.

7"x125' AERO ENLARGING 1, 2 or 3 single weight, semi-matte per roll **1.85**
20 rolls asst. grades . 37.40
20 rolls one grade (case) 35.00

Here's still another way of keeping printing costs down. As many as 300 8x9¾'s or 240 8x10 sheets from one roll. All rolls packed in hermetically sealed cans. Resisto stock.

9¾"x200' AERO ENLARGING 1, 2, 3 single weight semi-matte per roll **2.95**
12 rolls assorted grades 34.20
12 rolls one grade (case) 33.00

SLIDE COMBO

ALL-METAL 100 watt, thermal draft cooling. A 30x40" glass beaded TRI-POD screen. Plus a metal slide file with as hi as 300 capacity. List $30.00.

ALL BRAND-NEW **16.50**
1.85 postage & insurance

SLIDE PROJECTOR

100 watt, all metal, double quick change slide carrier, Thermal cooling. Condenser & 4" lens. List $10.95.
BRAND-NEW **7.49**
65c postage & ins.

2" f4.5 ELGEET LENS

Coated sharp-cutting lens in barrel. Engraved slope to f22. Complete with mounting flanges. Use with any enlarger. List price $18.95.

BRAND-NEW **11.95**
35c postage & insurance

HOME MOVIE SCREENS

Results in brighter life-like projection. List, almost double our price. Glass beaded tripod in roll-away hammertone cases.

*30x40" **6.85**
*40x40" 8.95
**37x50" 10.85
**50x50" 12.95

*1.25 post & ins.
**Via Express

GADGET BAGS

Genuine pigskin bag. Jumbo size for all movie press & roll film Cameras. Full 5x 10x12" Zippered closure, brass locks. Value $35.00.
BRAND-NEW **15.95**
55c post & ins.

PRICES F.O.B. N. Y.—ADD POSTAGE—Send for FREE bulletins of surplus and other bargains. Unless specified as fresh, all film and paper gov't surplus—outdated and guaranteed good. Minimum order $2.50.

FILM SPECIALS

All in this listing, outdated surplus—guaranteed good

16mm Movie Film

100 ft. x 16mm
Either KODAK SUP X, all-purpose panchromatic . . . (ASA 100) or ANSCO HYPAN. Price includes processing by Kodak each roll **3.95**
3 rolls 10.50
6 rolls 20.00

16mm x 50' KODAK SUP X OR SUP XX
for the MAGAZINE type camera. Includes processing by Kodak each **3.50**
3 for 9.25 6 for 17.75

PROCESSING NOT INCLUDED
16mm x 100 ft. PLUS X NEGATIVE or SUP XX NEGATIVE for reel loading. each roll . 3 for 4.00 **1.49**
SINGLE PERF E.K. SUP XX in 100 ft. reels. For sound movies, etc. roll **1.50**
3 for 4.50
16mm x 50' EK PLUS X neg. EK SUP XX negative MAGAZINES, ea. **1.25**
5 for 5.50

16mm Kodachrome
Original, not respooled or repacked. In tungsten or daylight. Price includes processing by Kodak labs.
100' REELS ..... ea. 7.95
50' MAGAZINE .. ea. 4.95

COLOR FILM

4x5 ANSCO COLOR tungsten, 6 sheet per box, each **3.29**
8x10 ANSCO COLOR . . specify tungsten or daylight. You can cut 25 4x5's from each box . . . 6 sheets **9.95**
35mm x 20 exp. ANSCO COLOR—guaranteed factory-fresh. Daylight or tungsten; cartridges reloads.
5 for $5.95 . . . ea. **1.25**
12 carts. 13.49

8x10 EKTACHROME . . . specify tungsten or daylight. Cut 48 4x5's from each box. 12 sheets **14.75**

35mm FILM

27½ feet Dupont Sup #2 Notched & numbered ..... 3 for **1.25**
6 for 2.25 12 for 4.25

ANSCO SUPREME
35mmX100 ft. rolls . . for full color sensitivity and fine grain work . . . ea. **1.20**
3 for 3.00

100 FOOT ROLLS
Supreme ..... 3 for 3.00
Finopan ..... 3 for 5.00
Ansco Ultra-Speed . 3 for 4.00
Kodak Background X roll 1.89
3 for 5.25

200 ft. DUPONT #3
Another money saving special. Fully guaranteed 5 rolls **5.95**

400 FOOT ROLLS
Superior #1 fine grain 1951 ..... roll 6.75
Background X ..... roll 4.95

400 ft. ULTRA SPEED
Surplus permits us to offer this value at a low price ..... per roll **3.95**
Ultra-Speed ..... roll 3.95
Superior #2 ..... roll 2.40

1000 FOOT ROLLS
Fine Grain Dup . . . roll 9.00
Ultra-speed ..... roll 13.50
Dupont Sup 2-3 . . . roll 9.50
Negative Duplicate roll 19.50

BULK FILM LOADER
Cut film costs 90%. Load your own in daylight or room light.
BRAND-NEW **4.95**
COMBO LOADER with 100 ft. of 35mm film . . . $ 5.95
plus 65c postage & ins.

ROLL FILM

116 Ansco Plenachrome
620 Ansco Supreme ..
Any dozen of above . 2.50

35mm Transparencies

make 'em from your present 35mm negatives
That's right from B&W negs or color positives, you make fine grain projection positives of sparkling brilliance with this film. NOT a reversal; develop like Plus X or Sup XX.
35mmx100ft. Positive film ..... ea. **1.18**
3 for 3.00

CUT FILM SPECIALS

CUT FILM
4x5 Direct Copy 6 dz 2.50

4x5 EK PANCHROMATIC, good for experimental work, unusual pictures. Slightly fogged. 20 dz 4.25 **2.00**
8 dz

4x5 Geveart Pan (ASA 100) 2 dz 1.49
6 dz 4.19
4x5 FILM PACK Verichrome Super XX ..... ea. 1.50
3 for 4.25

7x8⅝ Transmission Type A ..... 2 dz 1.95
6 dz 4.50
7x9 Transmission Type C ..... 2 dz 1.95
6 dz 4.50
14x17 Kodaline, Extra thin '48 ..... 2 dz 7.25
20x24 EK Commercial 2 dz 7.50
12 dz 40.00
20x24 Ansco Commercial 2 dz 7.50
12 dz 40.00
20x24 Process Film 2 dz 6.90
20x24 Ansco Re-prolith Pan . . 2 dz 8.95

Minimum Order $2.50—Add Postage—Excess Refunded

AMERICA'S PHOTOGRAPHIC BARGAIN CENTER

AIR PHOTO SUPPLY CORP.

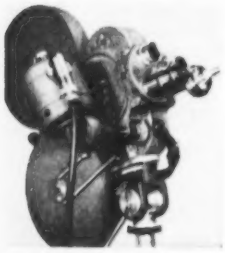
Dept. AP-5 555 E. Tremont Ave., New York 57, N. Y.

204° rotary disc shutter; 1/28 sec. shutter speed at 16 frames per second; spring motor drive with positive start rundown stop; useful spring run of 23 ft.; hand crank; revolving drum finder; 3-lens turret with matching 3-objective viewfinder including parallax correction, focusing eyepiece and film plane reference mark; B&H coated 1-inch f/2.5 lens set to scale; screw mount; built-in lens shade; critical focuser; continuous operation lock. Price, $341.50 including tax; combination case, $37.95. Available accessories include filters, motor, rewind knob, external magazines. Complete line of lenses available.

B & H 70-H

16 mm silent; roll loading; 100-ft. normal capacity; adapted for 200 and 400 ft. external magazines; 8, 12, 16, 24, 32, 48, and 64 frames per second; 204° angle disc shutter; shutter speed of 1/28 sec. at 16 frames per second; 1/25 sec. single frame speed; spring run; positive start; Veeder footage counter; positive parallax correction; critical focusing through lens; adapted for electric motor drive; adapted for single perforated sound film; hand strap; hand crank; B & H Super Comat coated 1-inch f/1.9 lens; 3-lens turret; slack film take-up; rewind knob; built-in inertia stabilizer. Price, $625.95. Accessories available include filters, synchronous motor, lenses, single-exposure device, external film magazines; combination case holding camera, magazines, electric motor and all accessories, $52.95.

B & H 70-S



16 mm silent; adaptable for sound with single perforated film; 100-ft. capacity; 128 frames per second; 217° angle disc shutter; shutter speed at 128 frames is 1/210 sec.; spring motor; positive start; rundown stop; useful run 17 ft.; positive viewfinder; focusing through lens-center of field only; parallax adjustment; adapted for electric motor drive and magazine; B & H Super Comat coated 1-inch f/1.9 lens in screw mount; 3-lens turret. Price, $514.00; combination case, $37.95. Available accessories include full line of lenses, filters, hand strap, electric motor, Veeder footage counter, 400-ft. external film magazines, speeds of 160 or 240 frames per second.

MFR., Bell & Howell Co.

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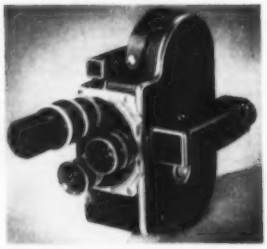
BOLEX L-8

8 mm silent; roll loading; capacity 25 ft. of double width; 12, 16, 24, and 32 frames per second; 160° angle rotary shutter; shutter speed at 16 frames 1/30 sec.; spring motor; positive start; rundown stop; useful run 7 ft.; automatic dial footage indicator; eye-level viewfinder corrected for ½, 1, and 1½-inch lenses; built-in exposure guide; end of film indicator in viewfinder; automatic footage dial return; continuous run lock; built-in lens shade; slack film take-up. Price, with coated ½-inch Kern Yvar f/2.8 lens in fixed focus mount, without case, $97; in focusing mount, $116.50, inc. case. Available accessories include lenses, handstrap, cable release, case, parallax corrector, wide-angle viewfinder lenses.

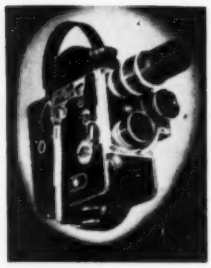
BOLEX DELUXE H-16 and H-8



16 or 8 mm silent; roll loading; 100-ft. capacity; 8, 16, 24, 32, 48, and 64 frames per second; 190° angle rotary shutter; shutter speed at 16 frames 1/30 sec.; speed at single frame, 1/25 sec.; spring motor; positive start; rundown stop; useful spring run 18 ft. for H-16, 12 ft. for H-8; automatically resetting dial footage indicator; Octameter viewfinder showing fields of wide angle to 150 mm for H-16 and 75 mm for H-8; focusing through lens from behind camera; C-mount 3-lens turret; automatic threading; instantaneous and time single exposure device; parallax adjustment down to 18 inches; frame counter; full rewind of 100 ft.; forward wind by hand or motor; clutch disconnects spring motor when electric motor or hand wind are used; audible footage counter; built-in film cutter. Price of H-16 with coated 25-mm Kern Switar f/1.4 lens, $496.50; also available with f/1.5 and f/1.9 lenses from $372.75 up. Price of H-8, with coated 12.5-mm Kern Switar f/1.5 lens, $438.50; also available with f/1.9 lenses from $364.75 up. Available accessories include sound sprockets, filterslot installation, cable release, trigger handle, turret lever, prismatic focuser, eye-level focuser. Hard leather case, $45; leather zipper case, $32.50.

BOLEX LEADER H-16 and H-8

Identical to DELUXE, except has Trifocal finder for three lenses instead of Octameter and is equipped with achromatic eyepiece for focusing through the lens from top of camera instead of eye-level focus from behind. LEADER H-16 with coated 25-



mm Kern Switar f/1.4 lens, $423.25; also available with f/1.5 and f/1.9 lenses from $299.50 up. H-8 with coated 12.5-mm Kern Switar f/1.5 lens, $365.25; also available with f/1.9 lenses from $291.50 up. Cases and accessories same as for DELUXE models.

DIST., Paillard Products, Inc.

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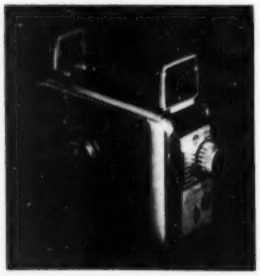
BROWNIE MOVIE CAMERA



8 mm silent; capacity 25 ft. double width; spring drive; rotary shutter; 16 frames per second, at speed of 1/35 sec.; spring run 7 ft.; mechanical footage indicator; wire frame viewfinder; 13-mm f/2.7 coated Kodak Ektanon lens; fixed focus; Waterhouse lens stops; built-in lens shade; sprocketless loading. Price, $42.50 including tax; field case, $3.40.

MFR., Eastman Kodak Co.

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CAMERAFLEX

35 and 16 mm silent models; camera magazines hold 200 and 400 ft. rolls; 12, 24 or 115-volt motors; detachable spring motor available; built-in tachometer; critical focus; governor controlled speeds from 8 to 135 frames per second; 3-lens turret; motor mounted underneath for hand operation, or on side for operation on tripod. Price on request.

MFR., Cameraflex Corp.

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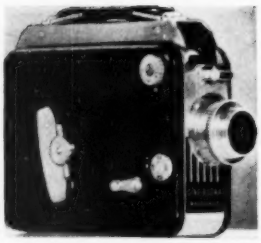
CINE-KODAK MAGAZINE 8

8 mm silent; magazine loading with 25 ft. capacity double width; 16, 24, 32, and 64 frames per second; 165° angle rotary shutter; 1/35 sec. shutter speed at 16 frames per second; spring drive, useful run 10 ft.; positive start; mechanical footage indicator; positive optical built-in eye-level finder; interchangeable lenses; bayonet mounting; coated Kodak Cine Ektanon 13-mm f/1.9 lens; built-in lens shade; set to scale focus; interchangeable magazines; pulse in-

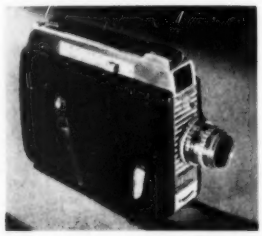


dicator; built-in exposure guide; parallax adjustment. Price, $150.95 including tax; combination case, $29.95; zip case, $7.25. Lenses available: 9-mm f/2.7, and 38-mm f/2.5, 50-mm f/1.6 and 63-mm f/2.7 Cine Ektanon; 25-mm f/1.9, 25-mm f/1.4, 40-mm f/1.6 and 63-mm f/2 Cine Ektar. Accessories include filters, supplementary lenses, focusing finder, ultra closeup attachment, etc.

CINE-KODAK RELIANT

8 mm silent; capacity 25 ft. double width; spring drive; dial-type footage indicator; 16, 24, 32, and 48 frames per second; built-in eye-level finder with parallax-correction indicators for 2- and 4-foot close-ups; shows field of 38-mm telephoto lens; sprocketless loading; built-in exposure guide; locking exposure button for continuous run. Price, with fixed-focus Cine Ektanon f/2.7 lens, $82.30 including tax; with Cine Ektanon f/1.9 lens in focusing mount, $102.25 including tax. Accessories include coated 38-mm Kodak Cine Ektanon f/2.8 telephoto lens, filters, cases, lens attachments, etc. Vuedar Converter makes 9-mm wide-angle lens out of 13-mm standard lens.

CINE-KODAK ROYAL MAGAZINE



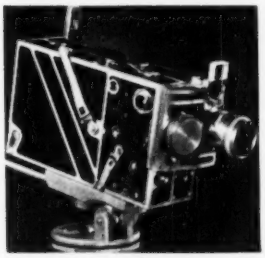
16 mm silent; magazine loading; 50 ft. capacity; 16, 24, and 64 frames per second; 160° angle rotary shutter; spring drive, 10 ft. run; 1/35 sec. shutter speed at 16 frames per second; rundown stop; positive start; direct contact footage indicator; enclosed optical viewfinder adjustable for standard, wide-angle, and telephoto lenses; single frame exposure; exposure guide. 25-mm f/1.9 Kodak Cine Ektar lens with focusing mount from 12 inches to infinity, $176.25, inc. tax; with pre-focused f/2.8 Ektanon lens, $162.15, inc. tax.

CINE-KODAK SPECIAL II

16 mm silent; 100 or 200 ft. capacity; 8, 16, 24, 32, and 64 frames per second; 165° angle, variable, rotary shutter; dissolving; 1/35 sec. shutter speed at 16 frames per sec.; spring drive, useful run 38 ft.; positive start; rundown stop; two types of footage indicators; direct eye-level finder;

Manufacturers' and distributors' addresses begin on page 194

interchangeable lenses; 2-lens turret; coated 25-mm Kodak Ektar f/1.4 or f/1.9 lens; built-in lens shade; set to scale, reflex, and full vision ground-



glass focusing; single exposure device; parallax adjustment; masks, fades, dissolves; interchangeable film chambers; hand crank; forward or reverse; frame counter; engraved plate with owner's name. Price on request.
MFR., Eastman Kodak Co.

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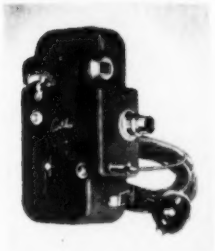
CINKLOX-SUPER FM-7



16 mm silent; roll loading; 100 ft. capacity; 3-speed motor for 16 and 24 frames per second, and slow motion; coated Wollensak f/2.5 lens with click stops; direct viewfinder; remote cable attachment to enable operator to get in scene; lock-on starting button; weighs over 4 lbs. Price, $71, tax included with f/2.5 lens. Accessories include carrying case, telephoto lens.
MFR., Cinklox Camera Co.

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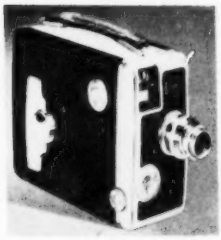
CORONA 61



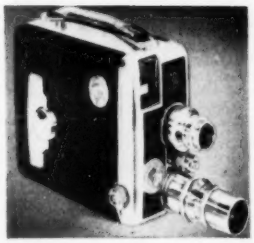
8 mm silent; magazine loading; 25 ft. capacity, double width; 16, 24, 32, and 64 frames per second; spring drive, 8 ft. run; external and internal footage indicators; built-in eye-level optical finder; interchangeable lens mount; parallax adjustment; slack film take-up; optional Wollensak, Elgeet, or Somco lenses; covered in natural goatskin leather with satin chrome finish. Price, from $127.25 to $153.10, including tax, depending upon lens.

CORONA 51

Same features and design as Model 61, but finished in two-tone gray wrinkle and hammerloid. Prices, from $84.00 to $105.10, including tax, depending upon lens.

CORONA 61-T

Same features and design as Model 61, but equipped with quick-change two-lens turret. Prices range from $143.50 to $165.40, including tax, de-



pending upon choice of lens from those offered.

CORONA 51-T

Same as above, except finished in two-tone gray and hammerloid. Prices range from $109.90 to $136.80, including tax, depending upon choice of lens.
MFR., Photographic Industries.

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DeJUR CITATION DC-600

8 mm silent; roll loading; capacity 25 ft. double width; camera speeds, 12, 16, 24, and 48 frames per second; rotary shutter; 160° angle; 1/36 sec. shutter speed at 16 frames per second; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in eye-level finder etched for 1½-inch lens; coated 13-mm anastigmat f/2.5 lens, fixed focus; interchangeable; built-in lens shade; slack film take-up; built-in exposure guide; release lock; sprocketless loading; anti-jam film gate. Price, $77.50 including tax; Sheathcase, $9.25. Accessories include fixed-focus and focusing lenses, lens attachments, hand strap.

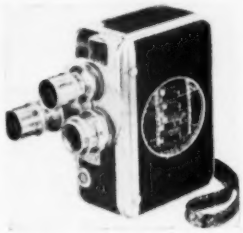
DeJUR DELUXE CITATION DC-800

Same as DC-600, except for universal focus lens; finished in black Morocco leather, with satin chrome finish. Price, $87.50, including tax; sheath case, $9.25.

DeJUR EMBASSY DC-700

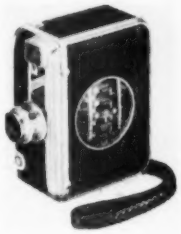
8 mm silent; magazine loading; capacity 25 ft. double width; camera speeds, 12, 16, 24, 32, 48, and 64 frames per second; rotary shutter; 160° angle; 1/36 sec. shutter speed at 16 frames per second; 1/25 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in finder etched for 1½-inch lens; 3-lens turret; coated 13-mm anastigmat f/2.5 fixed-focus lens; built-in lens shade; interchange-

able lens; slack film take-up; release lock; single-exposure device; built-in



exposure guide; hand strap. Price, $131.95 including tax; Holster case, $11.50. Available accessories same as Citation.

DeJUR EMBASSY DC-400



Same as the Embassy D-700 except has single-lens front. Price, $106.95 including tax; Eveready case, $11.50.

DeJUR FADEMATIC DC-100

8 mm silent; magazine loading; capacity, 25 ft. double width; camera speeds, 12, 16, 24, 32, 48, and 64 frames per second; rotary shutter; 160° angle; 1/36 second shutter speed at 16 frames per second; 1/25 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in, adjustable "zoom-type" magnification finder; coated 13-mm anastigmat f/2.5 fixed-focus lens; interchangeable; built-in lens shade; slack film take-up; release lock; single-exposure device; built-in exposure guide; handstrap; Fadematic Control built in for fades and lap-dissolves. Price, $127.50 including tax; holster case, $11.50.

TURRET DC-300

Same as the Fadematic DC-100 except has 3-lens turret. Price on request.

DeJUR FADEMATIC CALIFORNIAN DCH-100

Same as the Fadematic DC-100 except for covering; Californian is covered with saddle leather. Price, $130 including tax; eveready case, in California Saddle Leather, $13.75.

DeJUR FADEMATIC CALIFORNIAN TURRET DCH-300

Same as the Fadematic DH-100 except that it is equipped with a 3-lens turret. Price, $155 including tax;

deluxe compartment case in Calif. Saddle Leather, $24.50.
MFR., DeJur-Amsco Corp.

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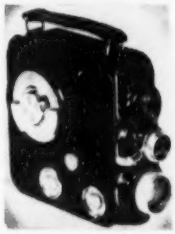
EUMIG 88



8 mm silent; roll loading; capacity 25 ft. double width; camera speeds 8, 16, 24, and 32 frames per second; rotary shutter; shutter speed at 16 frames 1/36 sec.; single frame device, speed, 1/30 sec.; spring motor; positive start; footage indicator; useful run 8 ft.; eye-level optical viewfinder; parallax correction; coated 12.5-mm f/1.9 fixed focus lens; slack film take-up; built-in exposure guide; continuous run; built-in photoelectric cell exposure meter. Price, $139.95; eveready case, $10.
DIST., Camera Specialty Co., Inc.

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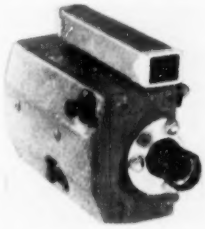
GORDON

16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 16, 32, and 64 frames per second; revolving shutter; 1/45 sec. shutter speed at 16 frames per second; electric drive; positive start; mechanical, geared footage indicator; positive optical viewfinder; interchangeable 1⅜-inch Eastman Kodak or Bausch & Lomb f/3.5 lens; screw mount; fixed focus; built-in lens shade; built-in exposure



guide; parallax adjustment. Price, $69.50 including tax.
MFR., Gordon Enterprises.

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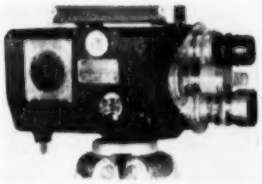
GROVER 3-LENS G.S.A.P. TURRET

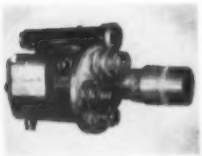


16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 12, 24,

Manufacturers' and distributors' addresses begin on page 194

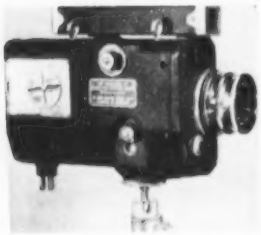
32, 48, 64, and 96 frames per second; 60° shutter; 1/40 sec. shutter speed at 16 frames per second; electric motor drive; useful run, 50 ft.; dial footage indicator; revolving 3-lens "C" mount turret. Supplied without lenses but with all equipment and gadget bag type case. Price with standard optical finder, $120.75; with zoom finder for lenses from ½" to 6", $155. Prices include power supply pack using standard photoflash batteries. All standard lenses available at additional cost.

GROVER 4-LENS GSAP TURRET



Same as above, but with 4-lens turret and zoom finder for lenses from ½-inch to 6 inches. Price without lenses, but otherwise complete, $195, inc. case.

GROVER G.S.A.P. C MOUNT



16 mm silent; magazine loading; 50 ft. capacity; 16, 32, and 64 frames per second; rotary shutter; 60° angle; 1/40 sec. shutter speed at 16 frames; electric motor drive; 50 ft. useful run; dial footage indicator; optical finder; helical focusing; coated 1-inch Wollensak f/2.5 lens; interchangeable; built-in lens shade; switch for remote control; built-in exposure guide; parallax adjustment; power supply pack from standard photoflash cells. Price, $87.50 including tax; case, $4.75. Accessories for Grover cameras include filters, slip-on lenses, hand straps, motor, etc.
MFR., Grover Photo Products.

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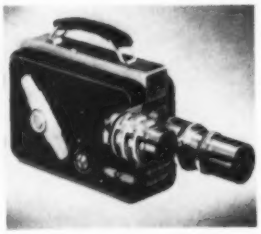
KEYSTONE K-40

8 mm silent; magazine loading; capacity 25 ft. double width; 165° angle rotating shutter; 8, 16, 24, and 64 frames per second; 1/35 sec. shutter speed at 16 frames; spring motor drive; positive start; rundown stop; useful run 6½ ft.; dial-type footage indicator; positive optical finder; interchangeable lens; ½-inch coated Wollensak f/2.5 lens; universal focus; built-in exposure guide; single exposure device; notches in finder aperture indicate parallel correction; visible and audible footage indicator in viewfinder; clicks at passage of every 9 inches of film; thumbwheel on top of camera changes size of viewfinder field for 1-inch and 1½-inch telephoto lens. Price, $107.75 including tax; with f/1.9 fixed-focus lens, $122.50; with f/1.9 lens in focusing mount, $132.50; case, $7.95.

KEYSTONE OLYMPIC K-32

8 mm silent; single lens; roll loading; 25 ft. capacity, double width; sprocketless loading; 8, 16, 24, and 64 frames per second; rotary shutter; single frame release; built-in optical viewfinder converts to wide-angle; spring drive. Price, with f/2.5 coated lens, $78; with f/1.9 coated fixed focus lens, $92.75; with f/1.9 coated lens in focusing mount, $102.75.

KEYSTONE MAYFAIR K-55

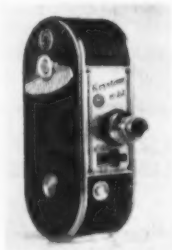


16 mm silent; magazine loading; 50 ft. capacity; two-lens turret; 8, 16, 24, and 64 frames per second; rotary shutter; single frame release; built-in optical viewfinder matches four lenses; spring drive. Price, with f/2.5 coated fixed focus lens, $146.50 with f/1.9 coated lens in focusing mount, $176.50.

KEYSTONE K-45

8 mm silent; magazine loading; capacity 25 ft. double width; camera speeds, 8, 16, 24, and 64 frames per second; rotary shutter; 165° angle; 1/35 sec. shutter speed at 16 frames per second; 1/29 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run, 6½ ft.; dial-type footage indicator; built-in optical finder, thumbwheel on top of camera changes size of field for 1-inch and 1½-inch telephoto lenses and ½-inch standard lens; single-exposure device; built-in exposure guide; parallax adjustment; visible footage indicator; 3-lens turret. Price, with coated ½-inch Wollensak fixed-focus f/2.5 lens in screw mount, $127.50 including tax; with f/1.9 lens in focusing mount, $152.50; combination case, $16.50.

KEYSTONE K-22



8 mm silent; capacity 25 ft. double width; 12, 16, and 48 frames per second; 140° angle rotating shutter; 1/40 sec. shutter speed at 16 frames; spring motor drive; useful run 5 ft.; positive start; dial-type indicator; built-in eye-level finder; interchangeable lens. Price, $73 including tax; with f/1.9 fixed-focus lens, $88; with f/1.9 lens in focusing mount, $97.75; price of cases, $7.95 and $8.50.

KEYSTONE K-29 PATHFINDER

8 mm silent; rollfilm capacity 25 ft. double width; 12, 16, and 48 frames per second; 140° angle rotating shutter; spring motor drive; useful run 5 ft.; positive start; audible footage indicator; built-in eye-level viewfinder; built-in exposure guide; flat base. Price, with f/2.8 coated lens, $49.95; with f/1.9 fixed focus lens, $62.95.

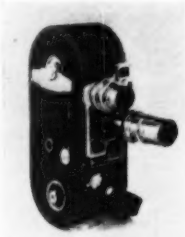
KEYSTONE K-36

Similar to K-22 model. Price, with coated ½-inch Wollensak fixed-focus f/3.5 lens, screw mount, $49.95 including tax; with ½-inch fixed-focus f/2.8 lens, $58.50; with ½-inch fixedable lens; ½-inch Wollensak coated f/2.5 lens; fixed focus; built-in exposure guide; flat base; equipped with 2 telephoto lens viewfinder frames which can be swung over in front of viewfinder lens, shows size of field for 1-inch and 1½-inch telefocus f/1.9 lens, $78; cases, $7.95 and $8.50.

KEYSTONE A-9

16 mm silent; capacity 100 ft. rolls; 10, 18, 24, 32, 40, 48, and 64 frames per second; 160° angle rotating shutter; 1/36 sec. shutter speed at 16 frames; spring motor drive; positive start; useful run 20 ft.; window-type footage indicator; built-in eye-level finder; interchangeable lens; 1-inch coated Wollensak f/2.5 lens; universal focus; built-in lens shade; built-in exposure guide; equipped with single-exposure device; 1/32 sec. shutter speed at single frame; audible scene length indicator; continuous run, single finger single claw allows camera to use sound film. Price, with coated Wollensak fixed-focus f/2.5 lens in screw mount, $89.50 including tax; with coated Wollensak f/1.9 lens in focusing mount $121; holster case, $13.75.

KEYSTONE A-12



Similar to A-9; equipped with 2-lens turret; rotation of turret changes size of finder field for 2-inch and 3-inch telephoto lenses, optical slide changes field for 17-mm wide-angle lens. Single finger single claw allows camera to use sound film. Price, with coated Wollensak fixed-focus f/2.5 lens in screw mount, $119.50 including tax; with Wollensak f/1.9 lens in focusing mount, $151.

KEYSTONE K-50

16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 8, 16, 24, and 64 frames per second; rotary shutter; 150° angle; 1/38 sec. shutter speed at 16 frames per second; 1/26 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run, 10 ft.; built-in eye-level finder; sliding knob changes size of viewfinder field for 17-mm wide-angle, 1-inch and 2-inch telephoto, and 1-inch standard lenses; lens in screw mount; single-exposure device; built-in exposure guide; parallax adjustment. Price, with coated Wollensak fixed-focus f/2.5 lens, $127 including tax; with f/1.9 lens in focusing mount, $158.50; combination case, $16.50; holster case, $10.50.
MFR., Keystone Mfg. Co.

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MAURER MODEL 05

16 mm silent; capacity 200, 400, or 1200 ft.; 235° angle, variable and dissolving 3-blade shutter; 2 to 128 frames per second with synchronous motor; 1/35 sec. shutter speed at 24 frames per second; motor drive; positive start; Veeder-Root Counter footage indicator; stop action positive optical finder with erect image, masks for 15-mm to 152-mm lenses; interchangeable Ektar and Baltar lenses; 3-lens turret; optional lens equipment; parallax adjustment; slack

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MODEL 80 CINE CAMERA

Superbly engineered—with fine watch precision! Economical "drop in" spool film loading . . . no threading or complex insertion! Adjustable viewfinder adjusts view of field for normal, wide angle or telescopic lens with a flick of the finger. New powerful motor requires only three windings per loading. Single frame exposure for trick effects. Five operating speeds for variety shots. Continuous run; footage indicator; exposure guide. Interchangeable lens mount. Beautiful brown crackle finish with gleaming chrome and smart ribbed leather trim.

With ½ inch F2.5 (Universal Focus) Coated Lens, tax included **$97.50**

With 13mm F1.9 (Focusing Mount) Coated Lens, tax included **$122.50**

new **thrills**...new **economy!**...new **Revere eights**

WITH "DROP-IN" SPOOL LOADING!

and you save as much as 25% on film costs!

Here are two new, streamlined movie cameras that make home-movie-taking so much fun . . . so easy . . . and so *economical!* Ingenious "drop in" loading provides magazine load ease with spool film economy. Powerful motor gives 10 feet run per winding. Precision-built, adjustable viewfinder; ultra-smart, modern appearance. Ask your dealer to show you all the features of these two beauties—features that make Revere the *outstanding* name in home movie equipment!

MODEL 84 TURRET CAMERA

Beautifully designed turret camera with economical "drop in" spool film loading. Versatile 3-lens turret head is rotated instantly from one lens to another. Adjustable viewfinder gives full view of field to coincide with any of three lens with a flick of the finger; eliminates masks. Powerful motor runs 10 feet of film per winding. Single frame exposure for titles and animation. Continuous run lets operator get into the picture! Five operating speeds; footage indicator; exposure guide. Smart brown crackle finish with chrome and ribbed leather trim.

With ½ inch F2.8 (Universal Focus) Coated Lens, tax included **$122.50**

With 13mm F1.9 (Focusing Mount) Coated Lens, tax included **$147.50**

Revere CINE EQUIPMENT

REVERE CAMERA CO. • CHICAGO 16, ILLINOIS

film take-up; 400-foot magazine; 140-power focusing system through the lens; clear glass viewing system; detachable finder. Price on request.
MFR., J. A. Maurer, Inc.

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MITCHELL 16 PROFESSIONAL

16 mm sound; magazine loading; 400 ft. and 1200 ft. capacity; stop motion to 128 frames per second; rotary shutter; 175° or 235° angle; variable and dissolving shutter; 1/34 sec. shutter speed at 16 frames; four-lens turret; motor drive; Veeder footage counter; erect image finder with built-in adjustable mattes; focusing through the lens; interchangeable Baltar or Eastman lenses; built-in lens shade; C mount and screw mount. Price, $4000.
MFR., Mitchell Camera Corp.

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MORTON SOUNDMASTER

16 mm sound-on-film recording camera; single-system unit recording sound and pictures simultaneously on the same film; 200 ft. magazine interchangeable with 400 ft. magazine; 3-lens turret; amplifier; microphone; headset; operated by portable power pack. Price, $670.
MFR., The Morton Co.

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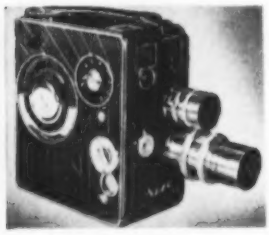
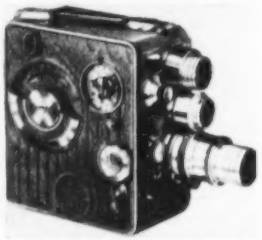
NIZO MODEL 2-ST

8 mm silent; roll loading; 25 ft. capacity, double width; 8, 16, 24, 32, 48, and 64 frames per second; rotary shutter; spring drive, useful run 11 ft.; dial footage indicator; positive start, run down stop; slack film take-up; rewind device, hand crank; audible frame counter; built-in exposure guide; three optical finders at eye-



level, waist-level and right-angle positions; parallax compensation optional; automatic optical field magnification compensator when telephoto lens is brought into position; fixed focus; built-in dissolve and fade devices; filter, hand strap and cable release supplied; two-lens slide shifts positions without rotating. Price, with .5-inch f/1.9 coated Schneider lens and 2-in. or 1½-in. f/2.8 telephoto, $205; with .5-inch f/1.5 coated Rodenstock lens 2-in. or 1½-in. f/2.8 telephoto, $260; parallax compensation, $20 additional.

NIZO HELIOMATIC



8 mm silent; built-in photoelectric governor coupled to both ½" and 1½" lenses on slide turret; diaphragm may be adjusted while filming; roll loading; 25 ft. capacity; double width; from 8 to 64 frames per sec.; rotary shutter; spring drive, 11 ft. useful run; dial footage indicator; positive start; rewind device; hand crank; two optical finders; automatic optical field magnification compensator. Price, with ½" universal focus f/1.9 and 1½" focusing f/2.8 lenses, $295; with ½" focusing f/1.5, plus telephoto lens, $355.
DIST., Ercona Camera Corp.

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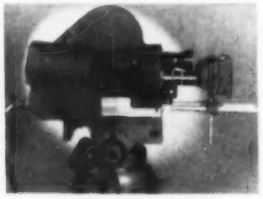
NORD PROFESSIONAL



16 mm; roll film loading; 200 ft. capacity; 24 frames per second; 240° angle shutter; electric motor; continuous run; foot and frame counter; studio, or Nord semi-zoom finder; rack-over focusing and microscope, critical focusing; automatic forward and reverse take-up; rack-over completely enclosed; uses lenses with C mount. Price, under $2500 including case. Accessories include hand crank, synchronous motor; blimp; animation clutch.
MFR., The Nord Co.

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PATHE SUPER 16

16 mm silent; roll loading; 100 ft. capacity; camera speeds, 8, 16, 24, 32, 64, and 80 frames per second; dissolving focal-plane shutter; 85° angle; variable; 1/32 sec. shutter speed at 16 frames per second; 1/32 sec. at single frame; spring motor drive; positive start; useful spring run, 10 ft.; mechanical footage indicator; direct reflex finder allowing focusing through the lens during filming and optical finder corrected for various focal length lenses; no parallax; single-exposure device; slack film take-up; full frame focusing device; built-in hand crank; 3-lens turret; automatic footage and frame counters. Price, $450; case, $45.
DIST., Director Products Corp.

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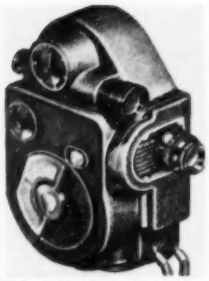
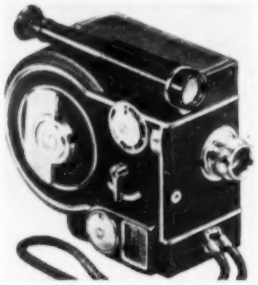
REVERE MODEL 88

8 mm silent; capacity 25 ft. double width; 8, 12, 16, 24, and 32 frames per second; 160° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames; governor speed control; spring motor drives; useful run 6 ft.; silent helical gears; automatic film loop sprocket; recessed gate prevents film scratching; built-in optical finder; parallax corrected. Price with f/2.5 lens, universal focus,



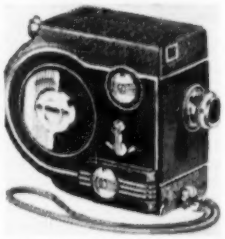
$72.50 including tax; with f/1.9 lens in focusing mount, $97.50.

REVERE MODEL 70



8 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 160° angle rotary disc shutter; 1/35 sec. speed at 16 frames; spring motor drive, useful run 9 ft.; positive start; rundown stop; visual footage indicator; positive optical built-in eye-level finder; interchangeable lenses; ½" coated anastigmat f/2.8 lens; screw mount; fixed focus; built-in lens shade; single exposure device; built-in exposure guide; parallax corrected; ratchet wind; wrist strap. Price, $109.50 including tax; with f/1.9 lens in focus mount, $134.50.

REVERE C77

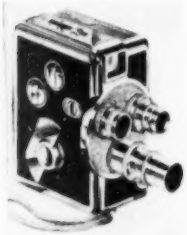


Same as the C70 model except has built-in eye-level finder; equipped with coated ½-inch f/2.5 lens. Price, $99.50 including tax.

REVERE 55

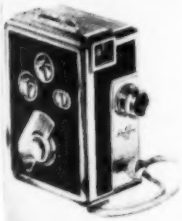
8 mm silent; roll loading; 25 ft. capacity, double width; rotary shutter; 16 and 64 frames per second; built-in dissolve and fade device; shutter speed 1/35 sec. at 16 frames per second; single frame device; Spring drive; positive start; rundown stop; useful run 11 ft.; dial footage indicator; ½-inch f/2.8 coated fixed focus lens in recessed mount, non-interchangeable; built-in optical viewfinder with parallax correction; built-in exposure guide; sprocketless drop loading. Price, with plastic case, $73.50; without case, $69.50; prices include tax.

REVERE 44



8 mm silent; magazine loading; capacity 25 ft. double width; 12, 16, 24, 32, and 64 frames per second; spring motor; single frame exposure device; positive start; automatic footage indicator; built-in adjustable eye-level viewfinder; continuous run; 3-lens turret; exposure guide. Price, with coated ½-inch f/2.8 fixed focus lens, $129.50; with coated 13-mm f/1.9 lens in focusing mount, $154.50.

REVERE 40



8 mm silent; magazine loading; capacity 25 ft. double width; spring motor; 12, 16, 24, 32, and 64 frames per second; automatic footage indicator; exposure guide; built-in adjustable eye-level viewfinder; single frame exposure; click stop lens settings; continuous run; interchangeable lens mount. Price, with coated ½-inch f/2.5 fixed focus lens, $99.50; with coated 13-mm f/1.9 lens in focusing mount, $124.50.

REVERE 50

8 mm silent; sprocketless roll loading; capacity 25 ft. double width; spring motor; useful run 10 ft.; continuous run; single frame exposure device click-stops aperture settings; built-in lens shade; automatic footage indicators; exposure guide; built-in eye-level viewfinder. Price, with coated 12.7-mm. f/2.8 fixed-focus lens, $49.50.

REVERE MODEL 99

Same as Model 88, except has rotating turret head for three screw-type lenses and extra optical viewfinder for telephoto work; index mechanism positions lens. Price, with f/2.8 lens, $99.50 including tax; with f/1.9

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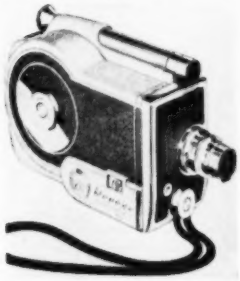
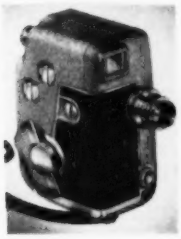
lens in focusing mount, $122.50.

REVERE MODEL C-16



16 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 133° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive, useful run 12 ft.; positive start; rundown stop; visual footage indicator; built-in micromatic eye-level finder; interchangeable lenses; coated 1-inch anastigmat f/2.5 lens; screw mount; fixed focus; built-in lens shade; single exposure device; built-in exposure guide; parallax corrector; ratchet-type wind. Price, $157.50 including tax; with f/1.9 lens in focusing mount, $182.50.

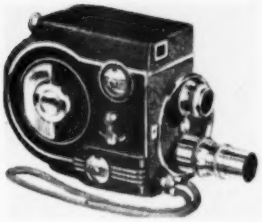
REVERE B-61



8 mm silent; magazine loading. 25 ft. capacity, double width; 12, 16, 32, and 48 frames per second; rotary shutter, speed of 1/35 sec. at 16 frames per second; single frame release; spring drive; positive start; rundown stop; useful run 11 ft.; dial footage indicator; built-in optical eye-level viewfinder with parallax correction; ½-inch f/2.5 coated lens; universal or fixed focus; interchangeable screw lens mount; built-in exposure guide; continuous run device; click stop Micromatic viewfinder adjustable for 3 lenses. Price, with plastic case, $116.50 including tax; with ½-inch f/1.9 lens and plastic case, $141.50 including tax; without case, $112.50 including tax; with f/1.9 lens without case, $137.50 including tax.

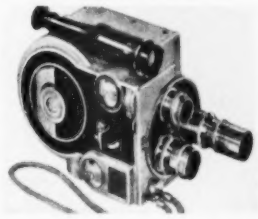
REVERE C-67

Same as the Revere C60 except has built-in eye-level finder and a 2-lens turret rather than 3-lens turret; equipped with coated ½-inch f/2.8 lens. Price, $119.50 including tax; with



f/1.9 lens in focusing mount, $144.50.

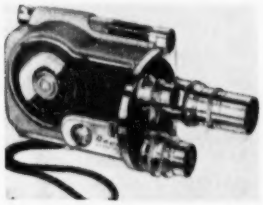
REVERE MODEL 60



Similar to Revere Model 70, except has 3-lens turret; micromatic built-in eye-level finder. Price, with ½" coated anastigmat f/2.8 lens with fixed-focus, $132.50 including tax; with f/1.9 lens in focusing mount, $157.50.

REVERE MODEL C-26

16 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 133° angle rotary disc shutter, 1/35 sec. shutter speed at 16 frames per second; spring motor drive, useful run 12 ft.; positive start; rundown stop; visual footage indicator; built-in micromatic eye-level finder; interchangeable lenses; 3-lens turret; 1-inch coated anastigmat fixed-focus f/2.7 lens; built-in lens shade; built-in exposure guide; parallax corrector; ratchet-type wind; wrist-strap. Price, $187.50 in-



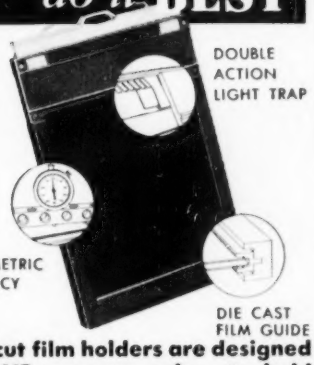
cluding tax; with f/1.9 lens in focusing mount, $212.50.

REVERE B-63

Features identical to B-61, but has 3-lens turret. Price, with ½-inch f/2.8 coated lens, $142.50 including tax; with ½-inch f/1.9 coated lens, $167.50 including tax.

MFR., Revere Camera Co.

LISCO *Holders* do it BEST



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ENLARGERS

AMATEX (VEIGEL) 35

Takes 35-mm film only; line voltage 110; 60-mm Corygon f/4.5 lens; single condenser; 150-watt opal enlarging lamp; helical focusing; 7-diameter enlargement at baseboard; film advance without removing roll; enlarger swings. Price, with lens, $74.95.

DIST., Burleigh Brooks Co.

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AMATO 35

Vertical enlarger for 35-mm film only; condenser one element system; GE 211 enlarging bulb; 110-volt; convection ventilating; 2" focal length, Amato f/6.3 lens; friction rack and pinion focusing; glass sandwich negative carrier; lamp-housing tilts and swings; hand switch on line; magnification scale on upright; film loops. Price, $19.95.

DIST., Spiratone, Inc.

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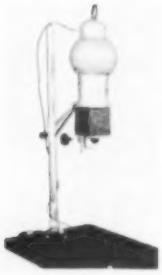
BACO PRECISION



Vertical or horizontal; takes film size 2¼x3¼; condenser illumination; 3½-inch f/4.5 Ilex Paragon Anastigmat lens; rack-and-pinion focusing; large focusing knobs; metal negative carrier; built-in red screen for focusing; positive locking pins to hold assembly in position; switch on cord. Price, with lens, $69.50.

MFR., Baco Accessories Co.

•

CINELARGER 35mm

Camera-like device used to enlarge 35-mm and Bantam color slides to black-and-white negatives on No. 620 roll film; uses No. 2 floodlamp; built-in lens and shutters. Price, $16.95.

MFR., Testrite Instrument Co., Inc.

•

CIPCO EVEREDI

Vertical; takes film sizes from 1x1½ to 1x¾; flashed opal diffusion illumination with 75-watt lamp on recommended line voltage of 110; ventilation by top shielded vents; 2-inch f/11 lens; 4-diameter enlargement on baseboard; fixed focus; metal negative carrier; film advance without removing roll; built-in red screen for focusing; control switch on cord; built-in-base easel. Price, $15.

MFR., Consolidated Instrument Parts Co.

COMPCO 620

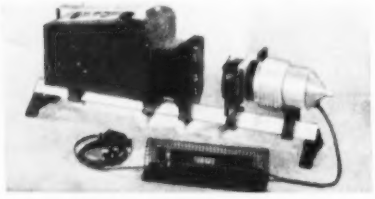
Vertical; takes film sizes from 35 mm to 2½x3½; opal diffusion illumination system; 150-watt standard enlarging lamp; 110-120 line voltage; natural draft ventilation; 3½-inch f/7.7 anastigmat lens; helical focusing; metal negative carrier; masks for 5 film sizes; film advance; snap action switch on cord; double channel uprights; steel baseboard. Price, $27.95. Accessories available include recessed lens board, carriers, masks, etc.

MFR., Compco Corporation.

•

CURTIS COLOR FILM ENLARGING PRINTER

Horizontal; takes 35-mm film size and enlarges to 4x5; designed for use as a contact printer, taking up to 4x5 negatives; 2-element condenser illumination system; 75-watt G-E No. 111 enlarging lamp; radiating aluminum fins ventilation; 2-inch f/4.5 Wollensak lens selected for color correction; 50-mm Leica or Contax lenses may be used when operating as printer; rack-and-pinion focusing; metal negative carrier; provision against Newton's



rings; distortion control. Price, including lens, filters, transparency mount, $182.

MFR., Curtis Laboratories, Inc.

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DeJUR VERSATILE KOOLITE I

Vertical; rotates to horizontal; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; illumination, 18-watt cold-cathode, 4500 K white lamp; 115 line voltage recommended; no ventilating provisions needed; coated 3½-inch DeJur Chromtar anastigmat f/4.5 lens; 9 diameters enlargement on baseboard; smooth friction lens and negative focusing; metal and glass sandwich carriers; film advance without removing roll; lamp-housing swings to permit bigger enlargements; negative carrier tilt and whole head tilt for distortion control; built-in red filter; line switch in cord; adjustable negative positions; interchangeable lenses on lensboard; rotating negative carrier. Price, $126.50.

DeJUR VERSATILE KOOLITE II

Similar to Model I; takes film sizes from 35 mm to 2¼x3¼; does not have full distortion control or double bellows. Price, including coated 3½-inch DeJur Chromtar anastigmat f/4.5 lens, $99.50. Accessories available for the Koolite enlargers include condenser head, camera backs, copying lights, color head, 3-color filter, etc.

DeJUR VERSATILE PROFESSIONAL KOOLITE

Vertical; rotates to horizontal position; takes film sizes from 35 mm to 4x5; flashed opal diffusion illumination, 34-watt cold-cathode, 4500 K white lamp; 115 recommended line voltage; no ventilating provisions required; coated 5½-inch Chromtar anastigmat f/4.5 lens; 5½ diameters enlargement at the baseboard; lenses interchangeable on lensboard; positive friction focusing; glassless negative carrier; 10 carriers available; film advance without removing roll; lamp-housing swings to permit bigger enlargements; lens and head tilt for distortion control; built-in red mask; line switch in cord. Price, $172.50.

DeJUR VERSATILE I

Vertical or horizontal; takes film sizes from 35 mm to 2¼x3¼; 2-element condenser illumination system; G-E No. 211 lamp; coated 3½-inch Chromtar anastigmat f/4.5 lens; Aero Teck ventilation; 9 diameters enlargement at baseboard; friction lens focusing; metal negative carrier; adjustable negative position; distortion control with negative stage tilt; built-in red filter for focusing; line cord switch. Price, $139.50 including tax. Accessories include, color head, three color filters, copying lights, tripod clamp, camera support, camera back, lens boards for various lenses; Koolite head.

DeJUR VERSATILE II

Takes film sizes up to 2¼x3¼, similar to Model I, but does not have full distortion control or negative position control. Price, with 3½-inch DeJur Chromtar anastigmat lens, $99.50, accessories same as Model I.

DeJUR PROFESSIONAL 4x5

Vertical or horizontal; takes film sizes from 35 mm to 4x5; 2-element condenser system; uses No. 211 opal bulb for illumination; Aero Teck ventilation; 5½-inch coated Chromtar anastigmat f/4.5 lens; friction focusing; metal negative carrier; provision against Newton's rings; distortion control by lens and head tilt; built-in red screen for focusing; line cord switch. Price, $172.50. Accessories the same as above models.

MFR., DeJur-Amsco Corp.

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ELWOOD AM MINIATURE

Vertical; takes film sizes from 35 mm to 2¼x3¼; silvered reflector or condensing lamphouse optional; A23 opal enlarging lamp; optional lens equipment; rack-and-pinion focusing; glass sandwich or glassless metal frame negative carrier; film advance without removing 35 mm roll; built-in red mask for focusing; micrometer screw focusing; distortion lens board furnished upon request. Price, with silvered reflector, $48 plus tax; price with double 5-inch condensers, $60 plus tax. Accessories include cold light, setback lens mount for 2-inch lenses, carriers.

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C–KORD-O-TEX GADG-IT BAGS, 8 SIZES from $6.95 to $17.95. Illus., C-606, 8½" x 10½" x 4", $10.95

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H–EXPOSURE METER CASES for all makes. Illus., C-225, Weston Master II, $2.50

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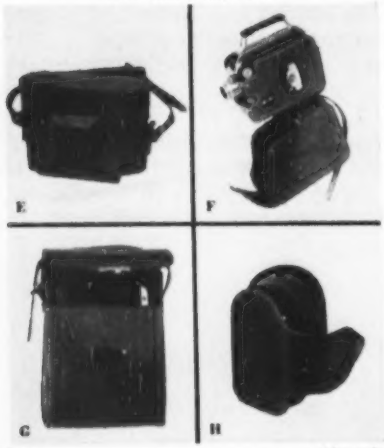

ELWOOD BM MINIATURE

Vertical; takes film sizes from 35 mm to 2¼x2½; single condenser illumination; 75-watt opal enlarging lamp; optional lens equipment; 10 diameter enlargements on baseboard; multiple thread lens barrel gives micrometer focusing; glassless metal negative carrier; film advance without removing roll; built-in red screen for focusing. Price, less lens, $30 plus tax. Accessories include longer main slide, cold light, negative carriers, lens extensions, set-back lens mounts.

ELWOOD SP-25 ANNIVERSARY MODEL

Vertical and horizontal; takes film sizes 35 mm to 5x7; 2-element condenser system or condensing reflector illumination; 200-watt enlarging lamps; heat absorbing glass; interchangeable lamp houses; for lenses of 5 to 7-inch focal length; no lens supplied; rack and pinion focusing; metal negative carrier; film advance without removing roll; 4 roller masks provided for masking negative in enlarger; lamp house tilts; tilting lens board; built-in red filter; color slide holds color screens; interior metal parts coated with black cotton flock; enlargements up to 30x42 inches at baseboard; bellows extension of 17 inches; maximum negative to paper distance of 49 inches. Price, with condensing reflector, $118, plus tax; with 6½-inch double-mounted condensing lenses, $145, plus tax; with 8-inch double-mounted condensing lenses, $165, plus tax; with 10-inch condensing lenses, $188, plus tax. Available accessories include tilting and revolving table, distortion lens board, recessed lens board; condenser lenses, interchangeable lamp houses.

ELWOOD STUDIO S-2

Vertical; takes film sizes from 35 mm to 5x7; semi-diffusion illumination, silvered reflector; 100-watt opal enlarging lamp; 120 recommended line voltage; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts; built-in red screen for focusing; built-in masking device; focusing spot in negative carrier; dual focusing; optional lens equipment. Price, less lens, $69 plus tax. Accessories same as above.

ELWOOD AUTOFOCUS 5x7

Vertical; takes film sizes up to 5x7; semi-diffusion illumination, silvered reflector; 200-watt opal enlarging lamp; 6⅞-inch f/4.5 coated anastigmat lens; 9 diameters enlargement on baseboard; autofocusing; switch on stand; glass sandwich negative carrier; lamp house tilts and swings; built-in red screen for focusing; built-in masking device. Price, $379.25 plus tax. Accessories include cold light, distortion lens board, set-back lens board, carriers, etc.

ELWOOD AUTOFOCUS 8x10

Vertical or horizontal; takes film sizes up to 8x10; silvered reflector; 200- to 500-watt opal enlarging lamp; 10-inch coated f/4.5 anastigmat lens; 5 diameters enlargement on baseboard; autofocus; glass sandwich negative carrier; switch on stand; built-in red screen for focusing; built-in masking device. Price, $713 plus tax. Accessories include the same as 5x7 model plus camera back attachment.

ELWOOD COMMERCIAL C-2

Vertical; takes film sizes from 35 mm to 8x10; semi-diffusion, silvered reflector; 200- to 500-watt opal enlarging lamp; optional lens equipment; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts; switch on stand; built-in red screen for focusing; built-in masking device; dual focusing; clamping handwheel focusing spot in negative carrier. Price, $243 less lens, plus tax. Accessories include distortion lens boards, set-back lens boards, lens extension, cold light, carriers, etc.

MFR., Elwood Pattern Works.

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EXACT (VEIGEL) 66

Vertical; takes film sizes from 35-mm to 2¼x2¼; double condenser lens assembly; 200-watt projection lamp; 110 line voltage; coated 80-mm f/4.5 Schneider Componar lens; click stops; helical focusing; optical rangefinder coupled to lens in use; 7-diameter enlargement at baseboard; operating controls at base of post; glass negative carrier with metal masks; condenser holds negative flat on carrier; tilting negative carrier; built-in orange filter; control switch on baseboard; film advance without removing roll; enlarger swings; rangefinder used for any size, on or off baseboard. Price, with lens, $189.50. Available accessories include lenses, reproduction adapter, reduction attachment.

EXACT (VEIGEL) 35

Similar to Exakt 66, but for 35-mm film only; double condenser assembly with matched coated 50-mm Rodenstock Ysar f/3.5 lens; 100-watt projection lamp; switch in line cord; single lever clutch for rapid control on single post. Price, with lens, $114.50.

DIST., Burleigh Brooks Co.

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FEDERAL STORE-AWAY SENIOR 311

Vertical; takes film sizes from 35 mm to 2¼x3¼; single condenser system with diffusion plate; 75-watt No. 211 opal lamp; 120 line voltage recommended; 3½-inch Federal Octar f/4.5 lens; 8 diameters enlargement on baseboard; micrometer friction wheel focusing; convertible glass or metal negative carrier; provision against Newton's rings; masks included for 4 film sizes; film advance without removing roll; built-in red filter; switch on line cord; can be stored in carrying case; metal baseboard; built-in focusing target. Price, $69.25. Accessories include carrying case, 2-inch lens, metal negative carriers.

Manufacturers' and distributors' addresses begin on page 194

FEDERAL 450

Vertical; takes film sizes from 35 mm to 4x5; groundglass and opal diffusion illumination; 75-watt clear enlarging lamp; ventilation by air vents with light baffles; 5½" f/4.5 anastigmat lens with iris diaphragm; 4½ diameter enlargement on baseboard; micrometer focusing; combination metal and glass negative carrier; controlled pressure prevents Newton's rings; masks for 7 film sizes; film advance without removing roll; distortion control by calibrated swivelhead; built-in red screen for focusing; line cord switch; color carrier and mask holder; built-in focusing target; counterbalanced; clutch on enlarger arm sleeve. Price, $109.50. Accessories include dustless metal negative plates, double condenser lens assembly.

FEDERAL 450-CL

Same as Model 450 except with Cold-Lite reflector dome; 32-watt circular fluorescent lamp; for 105-125-volt a-c; can use any timing device. Price, with 5½-inch f/4.5 Octar lens, $114.75; 2-inch f/4.5, 3½-inch f/6.3 lenses available; counterbalance included.

FEDERAL 470

This model is exactly the same as the 450 Model except that it has a combination 2-element condenser and sand-blasted light distribution plate illumination; 75-watt opal enlarging lamp. Price, including 5½-inch f/4.5 lens, $129.50. Accessories include dustless metal plates in all popular sizes.

FEDERAL 269 STORE-AWAY JR.

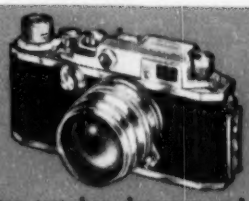
Vertical; takes film sizes from 35 mm to 2¼x3¼; groundglass and flashed opal diffusion illumination; 75-watt clear enlarging lamp; ventilation by air vents with light baffles; 3½-inch f/6.3 Decar anastigmat lens in iris diaphragm; 7 diameters enlargement on baseboard; metal and glass negative carrier; pressure control prevents Newton's rings; masks included for four film sizes; film advance without removing roll; lamp house swings and tilts; line cord switch; focusing target. Price, $39.75. Accessories include, carrying case, single condenser lens assembly, 2-inch and 3½-inch lenses, dustless negative carrier, etc.

FEDERAL 269-CL STORE-AWAY

Same as Model 269, except with Cold-Lite reflector dome; 22-watt circular fluorescent lamp; for 105-125-volt a-c; can use any timing device. Price, with 3½-inch f/6.3 coated Decar anastigmat lens, $53; accessories include case, dustless negative carrier, 2-inch lens.

FEDERAL 279 STORE-AWAY JR.

This model is identical with Model 269, with the exception of the illumination system; it has combination single-element condenser and sandblasted light distribution plate illumination with a 75-watt opal enlarging lamp. Price, $46.95. Accessories the same as for Model 269.



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50mm f1.5	Angle of View: 46°	214.65

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85mm f1.5	Angle of View: 29°	328.30
100mm f4	Angle of View: 25°	108.00
135mm f4	Angle of View: 19°	122.25

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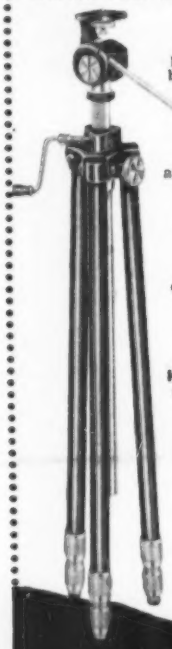

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FEDERAL 315-CL

Vertical or horizontal; takes film sizes from 35-mm to 2¼x3¼; 7 diameters enlargement on baseboard; micrometer focusing; metal and glass negative carrier; pressure controlled carrier prevents Newton's rings; masks included for 4 film sizes; film advance without removing roll; calibrated swivel head; built-in red screen for focusing; line cord switch; color carrier and mask holder; built-in focusing target; counter-balanced clutch on enlarger arm sleeve. Price, including tax, $80. Accessories include dustless negative carriers, etc.

FEDERAL 135 STORE-AWAY MINIATURE

Vertical; takes 35-mm and 828 film; 2-element condenser system; 50-watt No. 113 lamp; heat-absorbing glass; for 120-volt a-c or d-c; 2-inch, 51-mm, f/4.5 coated Decar lens in iris diaphragm; micrometer focusing; 14 diameters enlargement on baseboard; dustless metal negative carriers; provisions against Newton's rings; masking plates supplied for 2 film sizes; built-in red filter; sectional post. Price with lens, $49.95. Accessories available including carrying case, 3½-inch f/4.5, and 3½-inch f/6.3 lenses.

MFR., Federal Mfg. & Eng. Corp.

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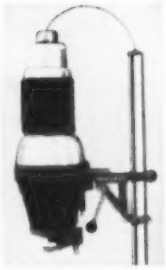
FOTOLARGER C

Vertical; takes film sizes from 35 mm to 2¼x3¼; 2-element condenser system; uses No. 211 enlarging lamp; 110-120 line voltage recommended; friction focusing; metal, rotating negative carrier; film advance without removing roll; lamp-housing tilts to permit bigger enlargements; built-in red filter, metal baseboard, split store-a-way pole. Price, $36. Accessories include enlarger stand, lenses, carriers, lens boards, copy back, copy lights, film cups, counter balance, and condenser sets for all size films.

FOTOLARGER D

Similar to Model C; flashed opal diffusion system; uses No. 211 opal enlarging bulb; friction focusing; rotating, glassless negative carrier, 16x19 metal baseboard and roller arm for easy raising and lowering. Price, without enlarger, stand illustrated, $28.50. Accessories include enlarger stand, $8.50; negative carriers, lensboards, lenses, condensers, etc.

FOTOLARGER 100-C



Vertical; takes film sizes 35-mm to 4x5; 2-element condenser system; 150-watt No. 212 opal enlarging lamp; vents in lamp house; 135-mm f/4.5 Elgeet coated lens; click stops; 16x19 enlargements at baseboard; friction focusing; metal negative carrier; one mask included, any size; rollfilm advance without removing roll; lamp house tilts and swings; built-in red filter; control switch in line. Price, without lens, $77.50, with lens, $110.50. Accessories available include counter-balance, any size negative carriers, and 135-mm f/4.5 coated Elgeet lens.

FOTOLARGER 100-D

Similar to Model 100-C, except has diffusion system; uses same lenses; has rotating negative carrier, and removable lens board; all other features same. Price, without lens, $54.50, plus tax; with lens, $87.50, plus tax. Accessories same as for Model 100-C.

MFR., Testrite Instrument Co., Inc.

●

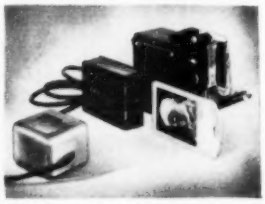
FUGUI MODEL II

Vertical; takes film size 35 mm to 2¼x3¼; 2-element condenser system; vents in lamp house; f/4.5 coated lens; click stops; autofocus; provisions against Newton's rings; masks for all film sizes; film advances without removing roll; lamp house tilts and swings; distortion control; built-in red filter; baseboard switch; 70-mm f/3.5 lens included. Price, $89.50, plus tax.

DIST., Cinema Products.

●

GRAFLARGER BACK



Enlarging head and back for press-type cameras; fits sizes 2¼x3¼, 3¼x4¼, 4x5; flashed opal illumination system; 75-watt cold cathode Aristo Grid Lite lamp; for line voltage of 110; metal negative carrier; for adapting camera to enlarger use. Price, $35.00, inc. tax. Accessories include negative carriers and stand.

MFR., Graflex, Inc.

●

JIFFY PHOTO ENLARGER MODEL 211

Horizontal; takes film sizes from 35 mm to 2¼x3¼; opal diffusion illumination; 75-watt G-E 211 lamp; no overheating in 24 hr. continuous use; 85 mm f/11 lens with friction focusing; glass sandwich negative carrier; special 35-mm holder; masks for all film sizes; film advance device; control switch on cord; easel for 5x7 paper, adjustable smaller; Price, $9.95 complete. Accessories include long focal length lens, 8x10 easel, etc.

MFR., A P Products.

●

KODAK AUTO-FOCUS—MODEL E

Vertical; takes up to 5x7 film and plates; ground and sandblasted glass diffusion illumination; G-E No. 302 500-watt opal enlarging lamp; ventilation provision; 7½-inch coated f/4.5 Kodak Ektanon Enlarging lens; click stops; 4 diameters enlargement on baseboard; combination glass sandwich and metal frame negative carrier; built-in mask adjustable from 35 mm to 5x7; foot switch; 17x20 enlarging easel; diffusing disc holder; graduated scale on two sides of paper easel; lens diaphragm illuminator on lens board. Price, $582.85.

KODAK FLUROLITE

Vertical; takes film sizes from 35 mm to 2¼x3¼; designed for use as movie titler, slidemaker, view camera, and copy unit also; "integrating-sphere" type system with 22-watt circular fluorescent lamp; trapezoidal bi-rail frame; micrometer focusing and elevation; circular bellows; tilting back with zero indicator for distortion control; lighttight cabinet for film and paper built-in baseboard; available lenses include 2-, 3-, and 4-inch Kodak Enlarging Ektanon f/4.5 and Ektar f/4.5 lenses; rotary negative carrier; film advance without removing roll; built-in filter holder. Price, $99.50.

KODAK HOBBYIST

Vertical; takes film sizes from 35 mm to 2¼x3¼; "integrating-sphere" type system with 22-watt circular fluorescent lamp; coated 89-mm Kodak Enlarging Ektanon f/6.3 lens supplied; click stops; 7 diameters enlargement at baseboard; helical focusing; rotary negative carrier. Price, $44.00 including tax.

MFR., Eastman Kodak Co.

•

LEITZ FOCOMAT I-C

Takes film sizes from 1x1½ to 40x40 mm; single-element condenser enlarger; uses 75-watt opal lamp; 110 line voltage; coated 50-mm anastigmat f/3.5 lens with click stops; 10 diameters enlargement at baseboard; manual and automatic focusing; glass sandwich and metal negative carriers; provisions against Newton's rings; film advance without removing roll; lamp-house tilts to permit bigger enlargements; distortion control; built in red filter; control switch on baseboard. Price, $147, including tax.

LEITZ VALOY

Vertical enlarger for 18x24-mm to 4x4-cm film; one element condenser system; 75-watt opal lamp; 115-volt; Leitz Doogs f/3.5 lens; 2 to 10 X diameters; 24x36-mm masks; distortion control; control switch on baseboard. Price, less lens, $81.

LEITZ FOCOMAT II A

Vertical enlarger for 18x24-mm to 6.5x9-cm film; one element condenser; 75-watt opal lamp; 115-volt; Leitz Doogs and Focotar lenses supplied, f/3.5 and f/4.5; autofocus; glass sandwich negative carrier; distortion control; switch on baseboard. Price, with lenses, $450.

DIST., E. Leitz, Inc.

•

MAGNAR 66

Vertical; takes film size from 35 mm to 2¼x2¼; designed for use as projector also; single condenser system; uses 75-watt No. 211 enlarging lamp; 110 recommended line voltage; thermal-draft ventilation; 3-inch Ilex f/4.5 lens supplied; 8½ diameters at baseboard; helical focusing; metal negative carrier; film advance without removing roll; lamp-housing swings to permit bigger enlargements; tilting head for distortion control; built-in red filter; 2¼x2¼ red film carrier. Price, $49.75 including tax. Accessories include glassless negative carrier.

MFR., Kay Photographic Co.

•

MINOX

Vertical enlarger for 9.5-mm, 8-mm and 16-mm film; 2 element condenser; 30-watt, 6-volt lamp shielded top and side ventilating; Complan 15-mm f/3.5 coated lens; 30 diameters enlargement baseboard; micrometer focusing; metal negative carrier; film advance without removing roll; bright-dim switch. Price, $175, with lens.

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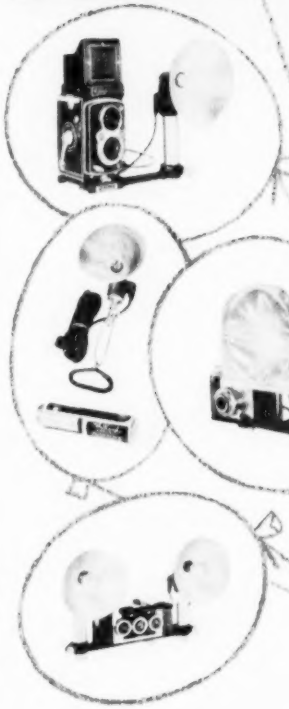

You'll get better flash pictures with a Synchro-Mite because of its many extra-quality features usually found only in units costing much more. Designed for midget lamps, Synchro-Mites are available for most cameras with built-in flash. Ask your Heiland dealer about Synchro-Mite accessories like the B-C cartridge, side-lighting unit, and handy 3-in-1 flash shield.

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With Summitar f:2 312.80
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Leica IIIF, Summitar f:2 ..... 384.20
3.5cm. Summaron f:3.5 ctd. W. A. 122.40
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13.5cm. Hektor f:4.5 ctd. Telephoto 165.00
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172-B, f:2.5 ctd. **$134.95**
172-B, Single Lens, f:1.9 ..... $164.95
172-A, 2-lens Turret, f:2.5 ..... 164.95
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Combination Case 22.95

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Xenon f:2 ctd. 'XM' Shutter Automatic Film Transport **$164.10**

Argus CIII Camera, case, Flashgun $69.50
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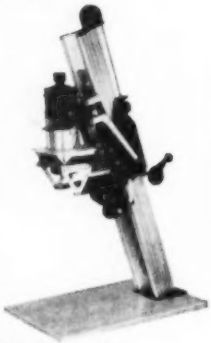
OMEGA B-6

For negatives, 35-mm to 2¼ x 3¼; interchangeable lenses; matches optically correct condenser system to each focal length lens; 110-volt a-c or d-c; 75-watt opal lamp in ventilated lamp housing; rack and pinion focusing; up to 13 X magnification on baseboard; glassless film holders supplied. Price, less lens, $99.50.

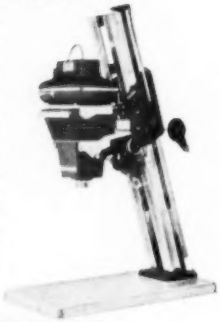
AUTOMEGA B-5

Autofocus enlarger for 35-mm to 2¼x3¼ negatives; interchangeable lenses; matches optically correct condenser system to each focal length lens; lens factory mated to individual focusing track; manual focusing possible; 110-volt a-c or d-c; 75-watt opal lamp in ventilated lamp housing; rack and pinion movement; up to 15 X magnification on baseboard; glass or glassless rapid film holder. Price, less lens, $129.50.

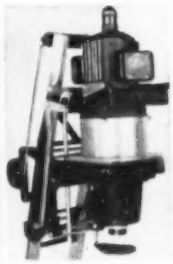


AUTOMEGA E-4

Autofocus for 5x7 negatives; interchangeable lenses; lenses for individual focusing tracks; Omegalite type lamp housing; 110-volt a-c; GE Circline tube; rack and pinion movement; up to 9 X magnification; glass type film holders supplied; distortion control and rotating lamp housing. Price, less lens, $304.75.



OMEGA D-2



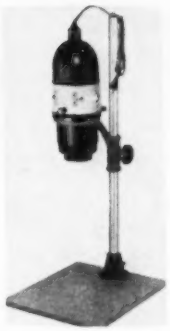
For negatives, 35-mm to 4x5; incandescent and condenser illumination or fluorescent Omegalite; interchangeable lenses 2" to 6½"; matches optically correct condenser system to each focal length lens; 110 volt a-c or d-c; 75-watt opal lamp with condenser lamphousing; glassless film holders supplied; up to 18 X magnification on baseboard; accessories available include: copy attachment; Varigam filter holder; portrait grid attachment. Prices, less lens, condenser type, $168.50; with Colorhead, $183.50; with Omegalite, $159.40.

MFR., Simmon Brothers, Inc.

PHOTAX

Vertical; takes film sizes 35 mm to 2¼x3¼; diffusion type; metal; wood baseboard; Dallmeyer 2-inch f/3.5, and 3 and 4-inch f/4.5 lenses available; friction focusing; 16 diameters enlargement at baseboard; lamp house swings; baseboard switch; 20½x21-inch baseboard. Price, $69.95, inc. tax.

DIST., General Photographic Supply Co.



PRECISE 160A

Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; uses No. 211 enlarging lamp; 110-115 line voltage recommended; 3½-inch Acromatic f/7.1 lens with Waterhouse stops; click stops; 5 diameters enlargement at baseboard; manual focusing; metal negative carrier; film advance without removing roll; lamp-house swings to permit bigger enlargements; built-in red filter; masks included for all sizes. Price, $20 including tax.

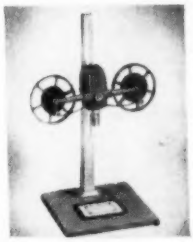
MFR., American Photo Laboratory.

PRIMOS AUTOFOCUS

For 35-mm film; condenser and diffusion type; circular vent system; 2 to 10 diameter enlargement on baseboard; 16x20 baseboard; rubber tips on bottom of baseboard; individual color head; Steinheil f/3.5 Culminar 50-mm lens with click stops; built-in pilot light. Price, without lens, $113; color head $15; Steinheil 50-mm lens, $30.

DIST., Camera Specialty Co.

REVERE ENLARGER-VIEWER



Vertical; takes film sizes 8 or 16-mm movie film; designed for use with Gevaert Diaversal direct positive paper for making prints; 1-element condenser system; 30-watt clear lamp; 110-120-volt a-c or d-c line voltage; uses camera lens mounted in fitting; knurled knob focusing; sprocketed film track instead of negative carrier; control switch in line cord; can be reversed on standard for floor projection from table height; unit includes kit containing yellow-green safelight, Gevaert Diaversal paper, plastic trays, processing solutions, sponges, and two-sided gummed tape; can also be used as movie viewer. Price, for 8-mm size, $37.50 including tax, for 16-mm size, $39.50 including tax; prices include wood baseboard, metal standard, and rewinds.

MFR., Revere Camera Co.

SALTZMAN 30 WRC

Vertical; takes film sizes up to 5x7; condenser type; 4½-inch seamless steel tubular column; cast iron base; built-in cut-offs for framing; double focusing slides; lensboard tips and tilts, with vernier scales; snaplocks at zero tip and tilt position; control to focus lamp; automatic focusing with camera and lens motion; equipped with 500-watt enlarging lamp; 30x30 baseboard; all operating controls located on the base of the machine at the front. 30 WA for negatives up to 8x10. Price, $1392.71.

MFR., J. G. Saltzman, Inc.

Manufacturers' and distributors' addresses begin on page 194

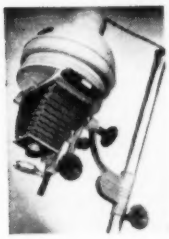
SOLAR 57

Vertical, can be used horizontally; takes film sizes from 35 mm to 5x7; designed for use as a projector; groundglass diffusion illumination: 150 watt on 115 line voltage; optional lens equipment; rack-and-pinion focusing; glass or metal negative carrier; provision against Newton's rings; lamp house tilts and swings; distortion control; built-in red screen for focusing; toggle switch on table top; non-actinic baseboard. Price, without lens, $86.50. Accessories include camera back, microscope adapter, carriers, copy stand, etc.

SOLAR 57 HC

Vertical; takes film sizes from 35 mm to 5x7; 2-condenser system; 150-watt enlarging lamp; 110-120 recommended line voltage; optional lens equipment; rack-and-pinion focusing metal and glass sandwich negative carriers; provision against Newton's rings; lamp-housing swings to permit bigger enlargements; distortion control; built-in red filter; toggle switch built in baseboard; heavy base casting; parallel supporting arms for lamp-house; focusing arrangement for user to select focusing range relative to focal length of lens being used. Price, $249.50.

SOLAR 45C



Vertical, can be used horizontally; takes film sizes from 35 mm to 4x5; designed for use as a projector; 2-element condenser illumination system; optional lens equipment; rack-and-pinion focusing; metal negative carrier; movable lamp housing; toggle switch on table top; double-extension bellows. Price, without lens, $129.50. Accessories same as for Solar 120 model.

SOLAR 45D

Similar to Model 45C; diffusion-type unit with Solar light equalizers; optional lens equipment; provision against Newton's rings; distortion control. Price, $86.50.

SOLAR 120

Vertical; takes film sizes from 35 mm to 2¼x3¼; designed for use as a projector also; 2-element condenser illumination; 150 watts; optional lens equipment; rack-and-pinion focusing; metal negative carrier; masks included for 2¼x3¼ film size or whatever size requested; film advance without removing roll; lamp-housing tilts and swings; table-top toggle switch; double extension bellows; oversize condensers; interchangeable lenses. Price, without lens, $66.50. Accessories include camera back, microscope adapter, copy stand, wall bracket, and lenses.

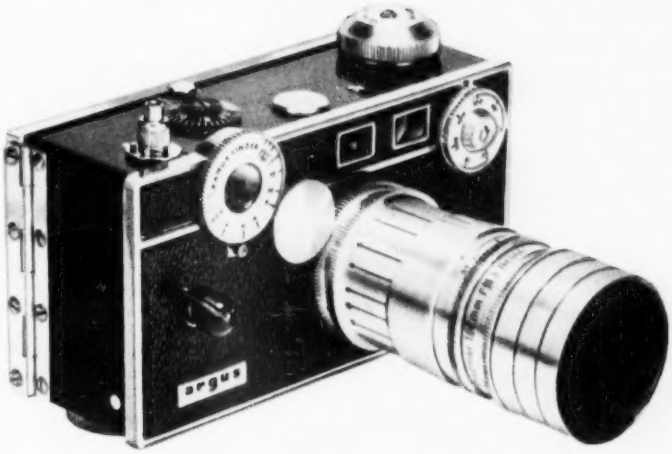
SOLARMATIC 120

Vertical; takes film sizes from 35-mm to 2¼x3¼; 2-element condenser illumination; 8 diameter enlargement at baseboard; dustless negative carrier; leather bellows; 20x27 baseboard; tabletop switch; can swing horizontally. Price, less lens, $116. Choice of lenses available.

SOLARMATIC 4x5

Vertical; diffusion illumination; takes film sizes up to 4x5; dustless negative carrier; non-actinic baseboard; rack and pinion focusing; leather bellows. Price, less lens, $132.50. Choice of lenses available.

With the NEW ARGUS C3 TELEPHOTO LENS ...



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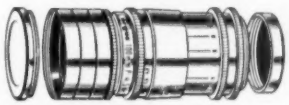
Here's how: Buy the new Argus-Sandmar Telephoto Lens and attach it to your camera (so easy to do). Your Argus C3 will then deliver a brand of performance equalled only by cameras costing hundreds of dollars. This four-element, 100 mm f:4.5 lens couples to the rangefinder to give you sharp, sure focus. It cuts distance in half to let you take close-up candids from far away. It's perfect, too, for true-perspective portraits. You get smooth helical focusing; top-side markings for easy reading; built-in sunshade and filter holder.



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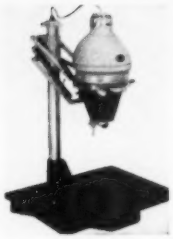
SOLAR 45QL



Vertical; takes film sizes from 35 mm to 4x5; 2-condenser system; 150-watt enlarging lamp; 110-120 line voltage recommended; self-ventilating housing; optional lens equipment; rack-and-pinion focusing; special quick-loading negative carrier arrangement; distortion control; built-in red filter; parallel arm supporting system; toggle switch in baseboard; 24x32 baseboard. Price, $219.50.

SOLAR AUTO-FOCUS

Vertical; takes film sizes from 35-mm to 2¼x3¼; 2-element condenser illumination; 8 diameter magnification at baseboard; 150-watt enlarging lamp; counterbalanced enlarging head; equipped with 3½-inch f/4.5 coated anastigmat lens; heavy base casting; magnification scale on side of enlarger head; leather bellows; dustless negative carrier; tabletop switch. Price, $139.50.

PRESS SOLAR 4x5

Vertical; takes film sizes up to 4x5; 2-element condenser illumination; automatic focusing counterbalanced enlarger head; dustless negative carrier; 3-inch tubular steel column; heavy base casting; leather bellows; 6¼ diameter magnification at baseboard; baseboard 24x30; 150-watt enlarging lamp; baseboard switch; equipped with coated 5¼-inch f/4.5 lens. Price, $298.50.
MFR., Burke & James, Inc.

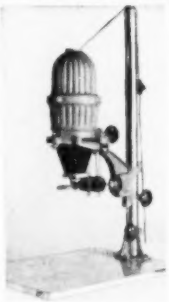
SUN RAY MASTERCRAFT 45

Vertical; takes film sizes from 35 mm to 4x5; combination condenser-diffusion system; 75-watt opal enlarging lamp; uses coated 135-mm Wollensak anastigmat f/4.5 lens; rack-and-pinion focusing metal negative carrier; lamp-housing swings to permit bigger enlargements; built-in red filter; switch on line cord. Price, less lens, $99.50.

SUN RAY MASTERCRAFT 23

Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; uses 75-watt enlarging lamp; 3½-inch f/6.3 Ilex enlarging lens; 16 diameters on baseboard; micrometer focusing; glass sandwich negative carrier; masks included for assorted film sizes; built-in red screen for focusing; Price, $42.50, including glass pressure plates and 6 assorted fibre masks. Accessories available include glassless masks, and condensers.

SUN RAY ARNOLD MODEL D



Vertical and horizontal; takes film sizes from 35 mm to 2¼x3¼; designed for use also as a projector; has combination 2-element condenser, and opal diffusion illumination; uses 75-watt enlarging lamp; 3½-inch f/4.5 Ilex enlarging lens; 16 diameters obtainable on baseboard; micrometer focusing; metal negative carrier; masks for 2¼x3¼ film sizes; film advance without removing roll; lamp house swings and tilts; built-in distortion control; built-in red mask for focusing; open jaw, counterbalance spring. Price, with lens, $79.50. Various glassless masks available as accessories.
MFR., Sun Ray Photo Corp.

ENLARGING EASELS

AIREQUIPT DIALMASTER

Takes up to 14x17 inch paper; all-metal construction; borders adjustable from 3/16 to ¾ inch; automatic 3/16-inch borders on 14x17 size; self-aligning masking bands; Silent Assistant adjusts top margin and left margin with twist of the dial; rubber, non-skid base. Price, $17.06.

AIREQUIPT 4-WAY

Takes 4 paper sizes, 2½x3½, 4x5, 5x7, and 8x10; all metal construction; built-in paper stops with a fixed frame for ¼-inch margins. Price, $8.07.

MFR., Airequipt Mfg. Co., Inc.

ARTCO BORDERLESS

Available for 8x10 and 11x14 paper; metal easel with composition holder; uses entire paper area; flat surface with holes backed by adhesive patches. Price, 8x10 size, $3.00 including tax; 11x14 size, $3.85, including tax.

MFR., Artcrafters Industries.

ARKAY EASY-EASEL

Takes prints up to 11x14; all-metal construction; scale on masking arms; automatic sharp borders; paper inserted from right edge while platen is depressed by platen lever on side of easel. Price, $8.25; 5x7 Easy-Easel available at $5.95.

MFR., Arkay Corp.

COLOR REGISTRATION

Designed for accuracy and simplicity of registration in the Dye Transfer Process; consists of registering-punching Plexiglas board and ¼-inch plate glass transfer board; pin system of registration use with allowance for expansion of matrices; stainless steel punch bar. Price, 11x14 size, $39.50; 16x20 size, $55.20.

MFR., Condit Mfg. Co.

DANDY EASEL

Takes paper sizes up to 11x14; all metal construction; scale on side arms; all-around adjustable borders from ¼ to 1¾; movable paper holder finished in durable white for focusing; washable surface. Price, $12.

DIST., Willoughby's.

DE GROFF

Takes paper sizes up to 11x14; all aluminum construction with chrome rail and spring steel masking strips; scale on side arms; automatic self-centering easel; instant interchangeability to glass for borderless prints; fixed masks for prints with standard size borders; adjustable mask strips for borders from 3/16-inch size and larger. Price, $24.75.

MFR., Burke & James, Inc.

EASOMATIC

Two sizes, 5x7 and 8x10; wood and plastic construction; no scales; ⅛-inch borders; permits fast printing in quantity. Price of 8x10 is $11.35, plus tax; 5x7 is $6.90, plus tax.

MFR., B. M. D. Manufacturing Co.

FEDERAL EASEL 10A

Takes paper sizes up to 8"x10" with ¼" borders; has 2 removable, adjustable masking arms for smaller sizes; all-metal construction; scales on two sides; ⅛" graduations; non-skid felt base; hinged masking frame. Price, $8.50.

MFR., Federal Mfg. and Eng. Co.

FR AUTOMATIC

Takes paper sizes up to 11x14; laminated base, all-metal parts finished in polished aluminum or crackle finish; scale on masking arms; arms are directly geared; no locking or unlocking necessary; turn knobs to adjust margins; all-around adjustable borders from ¼ to 2 inches; a "third" knob permits automatic setting of top and left hand margins simultaneously; a "third" hand grasps paper when mask is lowered and holds it while easel is being closed. Price, including tax, $27.

MFR., The FR Corporation.

G & R MINIATURE

Takes paper sizes up to 8x10; brass, steel construction with lamicoid felt; fixed opening and paper guides for accurateness and speed; numbers while you print; opening and border to order; 75 different takes paper sizes up to 11x14; 2-inch ing tax.

MFR., Goetz & Ruschmann.

KA-I-KO

Takes paper sizes up to 11x14; wood and metal construction; baseboard ruled scale; all-around borders adjustable from ¼ to 2 inches; white focusing base. Price, $5.95 including tax.

MFR., U. S. Photo Equipment Corp.

KODAK MASKING

Metal and masonite construction; sizes. Price varies up to $56 includ-masking arms; spring mechanism holds arms in position; Masonite base with felt-coated bottom; support holds up masking arms while paper is inserted; adjustable margins of any size between ¼ and ¾ inches. Price, $9.60, inc. tax.

MFR., Eastman Kodak Co.

PRECISE NO. 20

Takes paper sizes up to 11x14; all metal construction; baseboard-ruled scale in 1/16 inches; all-around borders adjustable from ¾ to 1½ inches; baked japanned baseboard with white focusing surface; instantly adjustable masking bands. Price, $6.75 including tax.

MFR., American Photo Laboratory.

PREMIER SENIOR

Takes paper sizes up to 11x14; all-metal construction with aluminum base covered by felt pad; scale on side arms; surface coated white for focusing; automatic paper clamp engages paper when frame is lowered to hold paper in place; margin control permits independent adjustment of horizontal and vertical borders. Price, $9.50 plus tax.

PREMIER JUNIOR

Identical to the above, except that it takes paper sizes up to 8x10. Price, $8 plus tax.

MFR., Photo Materials Co.

RADIANT 810

Takes paper sizes up to 8x10; adjustments from ⅛ to ½ inch; wood baseboard; scales in ⅛-inch graduations; steel masking bands; self-aligning positive masking; skid-proof felt base. Price, $9.95 including tax.

RADIANT 1114

Takes paper sizes up to 11x14; steel baseboard; scale on steel frame; self-adjusting masking band; Sta-tight slot to hold paper; positive lever for margin adjustment from ⅛ to 1½ inches; skid-proof base. Price $11.95 including tax.

RADIANT AUTOMATIC

Takes paper sizes up to 11x14; margins from ⅛ to 1½ inches; automatic paper centering; channels for all paper sizes; self-centering masking bands; special masking arms; scale on frame. Price, $23.95 including tax.

MFR., Radiant Specialty Corp.

RELHAM

Two models to take paper sizes up to 8x10 or 5x7; hardwood base with washable plastic focusing surface; fixed-border easel; supplied with steel springframes which correspond with popular paper sizes; frames are interchangeable. Price, 8x10 model with 7 frames, $7.20 including tax; 5x7 model with 5 frames, $4.80 including tax. Special sizes on request.

MFR., Relham Products Co.

SAUNDERS SING-L-SIZE

Colored yellow to absorb blue rays and prevent paper fogging; made in 2 sizes, 5x7 and 8x10; even 3/16-inch borders; non-skid rubber sheet bottom; all-metal easel; rust proofed; masking frame of steel bars. Price, 8x10, $4.95; 4x5, $3.95.

SAUNDERS MODEL E

Takes paper sizes up to 14x17; all metal construction; adjustable from 1¾x1¾ inches up to 14x17 inches; constant center; border adjustment by calibrated scale on individual blade; basket-weave blades hold paper flat; paper slots automatically hold-open click stop for paper insertion. Price, $22 plus tax.

MFR., Saunders Company.

SPEED-EZ-EL

All metal construction; requires no adjustments; paper inserted from either end to provide even borders; critical focus on easel; washable mat surface. Prices, for 2½x3½, $1.40; 3½x5, $1.55; 4x5, $1.70; 5x7, $2.35; 8x10, $3.35, and 11x14, $4.45. Special sizes quoted on request.

MFR., A. J. Ganz Co.

SUN RAY MODEL 4

Takes paper sizes up to 8x10; all-metal construction; scale on side arms; widths of all-around borders available from ¼ inch up; steel masking bands; white enamel base for focusing. Price, $4.95 including tax. Model 5 same as above, but takes paper sizes up to 11x14 inches; price, $6.95.

MFR., Sun Ray Photo Co., Inc.

Atkinson
FOR THE FINEST
COLOR PROCESSING PRINTING
EKTACHROME, ANSCO & EKTACOLOR PROCESSING
DYE-TRANSFER COLOR PRINTS
Atkinson LABORATORY
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Dept. A

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Mount your photo prints in your album the easy way. No glue needed. Simply pull off protective strip from adhesive tape and stick to album pages in any position desired. Insert 2 photos back to back with two negatives between photos for safekeeping. One package protects 24 photos and 24 negatives. 12 Photo Protectors per package. Large size 70c per package. Small size 50c per package. Furnished in all popular sizes.

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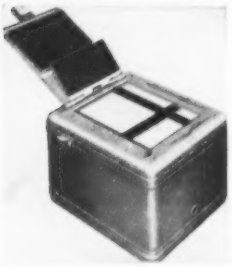
CONTACT PRINTERS

AIREQUIPT JUNIOR



Metal construction; takes negative sizes from 35 mm to 4x5; diffusion glass; automatic switch; felt covered hinged platen; automatic 3/16" margins; direct reading calibrations for margins to 5/8"; top and left margins set simultaneously; steel sliding masks. Price, $10.77.

AIREQUIPT PHOTOCRAT

All-metal construction; takes negative sizes from 35 mm to 4x5; uses 1 tubular white light; 25 watts on 120 recommended line voltage; diffusion by special processed glass; automatic switch for use as viewing or retouching box; built-in and concealed sliding masks for automatic 3/16 margin; 35 mm guides for strip printing; built-in safe light; felt-cushioned pressure plate. Price, $15.95.
MFR., Airequipt Mfg. Co., Inc.

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ALCO

Wood construction; takes sizes from 2¼x3¼ to 8x10; split platen; upper half of front hinged to facilitate dodging; ground glass diffusion. Price, $50.
DIST., Alco Photo Supply Corp.

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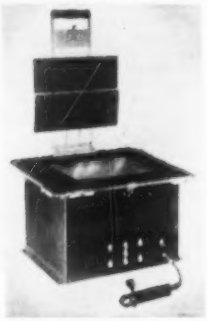
ARKAY ZEPHYR PRINTER

Metal construction; takes negative sizes up to 4x5; film guides for 35 mm printing; lock mechanism for time exposure; molded safelight lens diffuses light over large working area; slope-design body to prevent tilting under pressure. Price, $13.37 including tax.
MFR., Arkay Corp.

B&J PROFESSIONAL

Metal construction; takes sizes up to 8x10; independent electrical switches.



Price, with 5 lights, $82.50; with 8 lights, $99.50.
DIST., Burke & James, Inc.

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BRUMBERGER 1057

Metal construction; flash opal glass diffusion; uses 1 white bulb; 110 recommended line voltage; automatic switch; adjustable border masks; double-hinged rubber cushioned pressure plate; easy access to bulbs; supplied with 7½-watt ruby bulb. Price, $22.
MFR., Brumberger Co., Inc.

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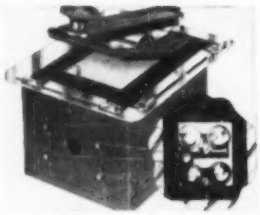
COMPCO 360 ARGON



Metal construction; negative sizes from 35 mm to 4x6; equipped with 4 Argon lamps, each on individual switch for control of negative densities; automatic switch; adjustable masking bands; hinged platen; supplied with ruby bulb. Price, $14.95.

COMPCO MODEL 280

Metal construction; takes negative sizes from 35 mm to 4x6; uses one 15-watt inside-frosted white bulb; opal-type glass diffusion; adjustable border masks; double-hinged rubber cushioned pressure plate; built-in safelight window; amber indicator window in front of printer tells when white light is on; wide phosphor bronze pressure spring. Price $7.95.
MFR., Compco Corp.

CURTIS TYPE M COLOR PRINTER

Combination wood and metal construction; takes negative sizes from 35 mm to 4x5"; uses 1 white bulb; 75-watt G-E enlarging bulb recommended; groundglass diffusion; designed for making balanced color separation negatives from color film; Anti-Newton Mounting Plate; gray scale; instruction booklet; filters for

Ektachrome, Kodachrome, Ansco Color film. Price, including white bulb, $30.
MFR., Curtis Laboratories, Inc.

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MORSE M21 PRINTER

Metal construction; uses 39 Argon lamps and 4 white bulbs; 100 watts; 110 recommended line voltage; each lamp is individually controlled and group switches placed for dodging; pneumatic pressure plate; simplifies vignetting; fast printing with cool burning, highly actinic Argon glow lamps; inflated rubber platen gives 600-lb. pressure; groundglass diffuser; plate glass printing surface; will handle negatives sizes up to 8x10. Price, $565.
MFR., The Morse Instrument Co.

•

PHOTAX

Metal construction; takes sizes from 35-mm to 2¼x3¼; uses 1 white bulb; 25-watts; recommended line voltage, 110; flashed opal glass diffusion; rubber cushioned pressure plate; has device which may be used as safelight for paper when not used as printer. Price, $6.98.
DIST., General Photographic Supply Co.

•

TRU COPY PHOTE

Wood construction; takes various negative sizes; recommended line voltage 110; pressure plate rubber cushioned; spring pressure cover; unbreakable glass top; removable filter; with or without timer. Price on request.
MFR., General Photo Products Co., Inc.

U. S. COLD LIGHT PRINTER

Metal construction; takes negative sizes from 35 mm to 5x7; uses 9 ultraviolet lamps; 22½ watts; 110 a-c recommended line voltage; flashed opal glass diffusion; adjustable border masks; double-hinged rubber-cushioned pressure plate; easel-type masks; automatic margin controls lining up of paper and negative; negative clamp; designed for table or sunk-bench use; mounting brackets provided. Price, $96 plus tax.
MFR., U. S. Photographic Equipment Corp.

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VARICON

Metal construction; takes sizes from 35-mm to 5x7; uses 4 25-watt white bulbs and one ruby lamp; floating rubber-cushioned platen; light trapped ventilation; automatic switch controls white light; ground glass diffusion; specially designed for Vari-

gam contrast paper as well as other papers. Price, inc. tax, $45.
DIST., Campus Camera Shop.

•

WILLO CHAMPION PRINTER

Metal construction; takes negative sizes from 35 mm to 5x7; uses two 25-watt white bulbs; 110 a-c, d-c recommended line voltage; groundglass diffusion; built-in adjustable border masks; double-hinged felt cushioned pressure plate; hinged masking frame has pressure bar; paper guide placement of paper; dual spool take-up for strip printing; push-button release; transparent rulers for reading; door in front with sliding groundglass for easy reading; adjustable from zero opening to 5x7. Price on request.
DIST., Willoughby's.

Manufacturers' and distributors' addresses begin on page 194

PREPARED DEVELOPERS

ACE

Ace-72 M.Q. Tubes. For paper and film; med. grain; normal emulsion speed; temp. tolerance 75°; normal shadow detail. Price, $.06 per tube to make 24 oz.
MFR., Ace Photo Laboratories.

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ALBURGER

Devel-1. For film; concentrate solution; physical-chemical development; very fine grain; rapid dev.; normal emulsion speed; extreme shadow detail, soft working. Price, qt. bottle, $.90; gal. bottle, $2.50.

Devel-2. For film; similar features as above; normal contrast, dev. time 6 min.; replenish with fresh developer; concentrate solution. Price same as Devel-1.

Devel-3. For film; concentrate solution; combination physical-chemical dev.; fine grain; increased emulsion speed; high contrast, extreme shadow detail. Price, same as above.
MFR., Alburger Research Prod. Co.

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ANSCO

Ansco Permadol. For film; chemical dev.; dry; medium grain; moderately rapid dev.; normal emulsion speed. Prices: 1 gal., $.50; 3½ gal., $1.20; 10 gal., $3.30.

Ansco Ardol. For paper; chemical dev.; dry; warm tones. Available in 1 qt., ½ gal., and 1 gal. packages. Prices: 1 qt., $.28; ½ gal., $.40; 1 gal., $.55.

Ansco Vividol packets. For film and paper; dry; chemical dev. Price 3 packets, $.35.

Ansco Vividol. For paper; dry; chemical development; cold tones. Prices: 1 qt., $.40; ½ gal., $.50; 1 gal., $.75; 5 gal., $3.25.

Ansco Color Film Developing Outfit. For Ansco Color film; contains all necessary chemicals to process Ansco Color film; includes 6 chemicals. Prices, 1 qt., $3.05; ½ gal., $3.90; 1 gal., $6.

Color Printon Developing Outfit. Contains the 6 necessary chemicals to process Ansco Printon film to produce color prints. Prices, 1 qt., $3; ½ gal., $4.20; gal., $7.35.

Finex-L. For film; single solution type; ultra-fine grain; no loss of film speed; normal developing time 15 min.; available in 1 quart size only. Price, $1.25.

Finex-L Replenisher. For use with Finex-L developer, increases useful working life of solution; available in 16 oz. bottles. Price, $.90.

Normadol. For film; dry chemical preparation; fine grain; normal contrast; normal emulsion speed; gradual development. Price, 1 quart, $.35; 1 gallon, $.85.

Normadol Replenisher. For use with Normadol developer; dry; maintain constant developing time. Price, same as above.
MFR., Ansco.

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ACTIVOL

Concentrate; for film; ready to mix; rapid development time; fine grain; increased emulsion speed with overdevelopment; soft-working; good shadow detail; good keeping qualities; can be diluted 40-1 for tank development. Price, 3½ oz. $.75 per bottle.
DIST., General Photographic Supply Co.

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DECO

Deco ABC. For film; single solution type; sensitizer-activator dev.; medium grain; rapid development time; film speed increasing developer; increased emulsion speed; good shadow detail; long keeping quality. Price, 3 qt., $3.
MFR., Development Eng. Co.

●

DR. CHARLES

Dr. Charles G-9. For film; in solution; combination physical-chemical dev.; fine grain; gradual dev. time 11 min.; normal emulsion speed; produces negative with both silver and stain image. Price, 1 qt., $1.65.
MFR., Ace Photo Laboratories.

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CURTIS LABS

Curtis No. 27. For developing test bromide prints to serve as color separation and exposure guides in Rapid Permatone process; soft-gradation developer for matrices made by acid-bichromate hardening bleach method; supplied as concentrated liquid for dilution, 1:31 with water; for mask development. Price, 8 oz. bottle, $2.
Curtis No. 52. Color film separation negative developer; long scale, soft gradation developer; fine grain; for separation negatives. Price, 1 gal., $1.60; 2-gal., $2.40.
Curtis No. 67. Color camera and A-B-C separation negative developer; fine grain; for direct separation negative work; for masks. Price, 1 gal., $1.40; 2 gal., $2.20.
MFR., Curtis Laboratories.

●

DUFAYCOLOR

Processing kit for Dufaycolor film; contains chemicals for ½ gal., divided into 2 1-qt. quantities, and instructions. Price, $3.75.
DIST., Continental Photographic Labs.; General Photographic Supply Co.

●

DU PONT

53-D All Purpose Developer. For films and paper; dry; chemical dev.; medium grain; rapid dev.; increased emulsion speed; contrasty; produces brown image on du Pont Warmtone paper. Available in units to make stock solutions of 1 qt., 2 qts., and 1 gal.
54-D Cold Tone. For paper; dry; especially cold tones; contrasty; for blue-black image color on "Apex" contact paper. Available in units to make stock solutions of 1 qt., 2 qts., and 1 gal.
55-D Standard Paper Developer. For paper; dry, ready to mix; warm tones; normal gradation; recommended for use with "Velour Black" and "Varigam" papers. Available in units same as above; also in tubes to make 16 oz. stock solution.
16-D Film Developer. For film; dry. Available in units to make 1 gal., 3½ gal., 10 gal.
16-DR Replenisher. For use with 16-D Film Developer; dry. Available in units to make 1 gal., 5 gal.
MFR., E. I. DuPont de Nemours & Co.

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EASTMAN

D-76. For film; dry; combination physical-chemical dev.; medium grain; dev. time 17 min.; full emulsion speed; soft-working; good shadow detail. Prices: 1 qt., $.36; ½ gal., $.51; 1 gal., $.78; 10 gal., $4.20. D-76R replenisher available.
DK-50. For film; dry; combination physical-chemical dev.; medium grain; rapid dev.; normal emulsion speed; soft-working; for portrait, commercial, color separation work. Prices: 1 gal., $.46; 3½ gal., $1.14. DK-50R replenisher available.
DK-60A. For film; dry; combination dev.; medium grain; rapid dev.; normal emulsion speed; normal contrast; recommended for fast sheet film. Prices: 1 gal., $.57; 3½ gal., $1.36.
Dektol. For paper; dry; combination dev.; cold tones; normal gradation; high print capacity. Sizes make stock solutions. Prices: 1 qt., $.42; ½ gal., $.51; 1 gal., $.78; 5 gal., $3.42. Packets available in cartons of 3, with each sufficient to make 16 oz. of working solution, $.35.
Microdol. For film; dry; combination dev.; replenisher available; fine grain; normal dev. time 16 min.; decreased emulsion speed 25%; soft-working; good shadow detail; recommended where considerable enlargements required. Prices: 1 qt., $.51; 1 gal., $1.05; 5 gal., $3.36. Microdol replenisher available. Packets available in cartons of 2, with each sufficient to make 8 oz. of solution, $.25. Liquid Microdol Developer, 1 qt., $1.
Selectol. For paper; dry; combination dev.; warm tones; normal gradation; sizes make stock solutions. Prices: ½ gal., $.42; 1 gal., $.57; 5 gal., $2.04. Selectol soft, 1 gal., $.57; gives warm tone for slight control of contrast.
Versatol. For film and paper; in solution; combination chemical-physical dev.; cold tones; normal gradation with paper; medium grain, normal emulsion speed and contrast with film; diluted 1-3 for paper or film developer; 1-7 for tank dev. of film. Prices: 8 oz., $.35; 1 qt., $1; 1 gal., $3.15.
Tri-Chem Pack. For film and paper; includes Kodak Universal M.Q. tube, Universal stop bath with indicator, and Universal fixer; makes 8 oz. for tray developing. Price, $.20.
Kodak Universal M.Q. For film and paper; makes 8 oz. for tray development of films and paper, and 22 oz. for tank development of film; chemicals come in two separate packs. Price, for unit, $.05; carton containing 12 packages (6 units), $.30.
Kodak Ektachrome Processing Kit. Contains all the required chemicals to process Kodak Ektachrome film. Includes 1st developer, hardener, color developer, bleach, and clearing and fixing bath. Prices: 1 pt., $1.57; ½ gal., $4.09; 1 gal., $6.30; 3½ gal., $15.75.
Kodak Ektacolor Processing Kit. Contains all the chemicals necessary to process Kodak Ektacolor Film. Prices: 1 gal., $5.25; 3½ gal., $13.12.
MFR., Eastman Kodak Co.

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EDWAL

Edwal Super 12. For film; in solution ready to use; combination dev.; fine grain; med. speed; normal contrast; shadow detail; increased emulsion speed; Price, 1 qt. bottle, $1.35.

Edwal Super 20. For film; in single solution ready to use; combination dev.; very fine grain; gradual dev.; normal emulsion speed; soft-working; good shadow detail; Price, 1 qt. bottle, $1.35.

Edwal Velvet. Paper developer; concentrate; chemical dev.; rapid; cold black tones; anti-fog principle; 16-oz. bottle to make ½ gal. of developer; price, $.99.

Edwal One-Eleven. For film and paper; in solution; chemical dev.; rapid dev.; normal emulsion speed; contrasty; good shadow detail with film; gives neutral black tones with fine gradation; 2 min. dev. time with bromide, 1½ min. with chloride papers. Price, 1 qt. bottle, makes up to 8 qts., $1.45.

Edwal Minicol. For film; in solution; chemical-physical dev.; very fine grain; gradual dev.; normal emulsion speed; very soft-working; recommended for flash photography and summer sunlight. Price, 1 qt. bottle, $1.35.

Edwal Thermofine. For film; dry and in solution; chem.-physical dev.; fine grain; rapid dev.; variable contrast; replenisher available. For use at temps. between 65° and 90° f. Price, liquid, 1 qt., $.99.

Edwal Super 20 Replenisher. For Super 20 developer; used to maintain constant developing time by adding 1 oz. to developer for each roll. Price, 16 oz., $.95.

Edwal Thermofine Replenisher. For Thermofine developer; used to maintain constant developing time by adding 1 oz. to developer for each roll. Price, 16 oz., $.95.
MFR., Edwal Laboratories.

FR

FR Super X-33. For film; combination chemical-physical dev.; fine grain; soft-working; fine shadow detail; in solution. Price, 1 qt., $.99; 5 qt., $3.80.

FR Super X-33 Replenisher. For Super X-33 developer; used to maintain constant developing time by adding one oz. to developer for each roll developed. Price, 8 oz., $.39; 1 qt., $.99; 5 qt., $3.80.

FR Negative Developer. For film; in solution; med. grain; normal emulsion speed; excellent shadow detail; good keeping qualities; for negatives to be used in making contact prints and 2X enlargements. Available in 32 oz. concentrated solution to make 2 gal. of working solution. Price, 8 oz., $.39; 1 qt., $.99; 5 qt., $3.80.

FR Paper Developer. For paper; chemical dev.; concentrated for dilution to make 1 gal. of solution. Price, 8 oz., $.39; 1 qt., $.99; 5 qt., $3.80.
MFR., The FR Corp.

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GRAPHIC ECONOMY

LT-17. For film and paper; dry; ready to mix; fine grain, rapid dev., contrasty, with film; warm tones with paper; non-oxidizing and non-deteriorating. Prices: 1 qt. pkg., $.75; 1 gal., $1.25; 5 gal., $5.50.

LT-18. For film and paper; similar to LT-17 except is very soft-working. Prices and quantities same as above.

LT-30. For film; dry; fine grain; normal emulsion speed; soft-working; good shadow detail; wide latitude. Prices and quantities same as above.
MFR., Graphic Economy Developer Co.

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HARVEY

Panthermic 777. For film; chemical dev.; very fine grain; rapid dev. time; temperature tolerance 60 to 90 F; normal emulsion speed; shadow detail; good keeping qualities; replenisher system offers continuous quality with no change in dev. time;
MFR., Harvey Photochemicals, Inc.

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MALLINCKRODT

Contratone. For film; dry, ready to mix; chemical dev.; coarse grain; rapid dev.; normal emulsion speed; contrasty; good shadow detail; use without dilution. Prices, 1 gal. pkg., $.62; 5 gal. pkg., $2.70.

Pictone. For film and paper; dry; coarse grain; rapid dev.; normal emulsion speed; good shadow detail, for film; cold tones; excellent gradation for paper; dilute 1-2 for paper and 1-1 for film. Price, ½ gal. pkg., $.45; 1 gal. pkg., $.68; 5 gal. pkg., $2.85.

Softone. For film; dry; medium grain; gradual dev.; normal emulsion speed; soft-working; good shadow detail; use without dilution for pan and ortho films. Prices, ½ gal. pkg., $.40; 1 gal. pkg., $.68.

Ultratone. For film; dry; chemical dev.; fine grain; gradual dev.; normal emulsion speed; soft-working; fine shadow detail; use without dilution; recommended at 77°F with either pan or ortho film. Prices, ½ gal., $.60; 1 gal., $1.
MFR. Mallinckrodt Chem. Works.

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MAY & BAKER, LTD.

Promicrol. For film; dry; extra fine grain; gradual development time; increased emulsion speed; good shadow detail; good keeping qualities. Range of subjects on dull days or under poor lighting conditions considerably increased. Price, 20 oz., $1.
DIST., Eagle Photo Supply Co.

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NATIONAL CHEMICAL

N-44. For film; single solution; chemical dev.; fine grain; gradual dev.; normal emulsion speed; good shadow detail; good keeping qualities; re-

Manufacturers' and distributors' addresses begin on page 194

plenisher available. Prices: 1 qt. bottle, $1.20; ½ gal. bottle, $1.70; 1 gal. bottle, $2.50.

Naccanol. For film; single solution; chemical dev.; fine grain; gradual dev.; excellent shadow detail and keeping qualities; extreme long life; replenishment made with developer. Prices: 1 qt. bottle, $.75; ½ gal. bottle, $1.30; 1 gal. bottle, $2.10.

Speedtone. For paper; bromide and chlorobromide; single solution; warm tones; very fast; good highlights. Prices: 1 pt. bottle, $1.15; 1 qt. bottle, $1.60; ½ gal. bottle, $3.10; 1 gal. bottle, $6.

MFR., National Chemical Co.

ROBBINS

Ethol 90. For films; medium to fine grain; 90 sec. development time at 70 F.; may be used at temperature from 50 to 100 F.; Ultra-Fine Grain Additive made for mixing to Ethol 90 for low grain in 35 mm development. Price, for quart mix, $.60; gallon mix, $1.50. Ultra-Fine Grain Additive, $.25 for quart mix; gallon mix, $.75.

MFR., Robbins Ethol Corp.

SUPERIOR

Cine Chems. For 8 and 16-mm movie film; medium grain; rapid dev.; dry; ready to mix; multiple solution type developer; chemical dev.; for reversal films. Prices, ½ gal., $1.55; 1 gal., $2.55.

MFR., Superior Bulk Film Co.

SUPER-TOMIC

Developer No. 1. For film; fine grain; single solution; rapid dev.; good shadow detail; good keeping qualities; replenishment with dev.; concentrate solution. Price, 4-oz. bottle to make 1 qt., $2; 1 pt. bottle to make 1 gal., $6.

Developer No. 2. Normal contrast; slightly more contrast than No. 1. Price, same as above.

Developer No. 3. High contrast; slightly more contrast than No. 2. Price, same as above.

Activator. Increases film speed 8 times, 3 f stops; for standard Super-Tomic developers only; increases grain size. Price, ½ oz., $1.50.

MFR., Super-Tomic Products Co.

UNITOL

For film; in solution form; chemical development; extra fine-grain; 1 oz. to 8 oz. water, thrown away after development. Price, 8 oz. bottle, $1.

DIST., General Photo Supply.

URELL

Formula 44. For film; in solution; combination chemical-physical dev.; fine grain; normal emulsion speed; soft-working; high shadow detail; temp. tolerance to 85 F. Prices on request.

Formula 86. For paper; in solution; cold tones; gives deep blacks with extreme latitude of exposure. Prices on request.

Formula 50. For film; in solution; combination dev.; medium grain; gradual dev.; normal emulsion speed; soft-working, for commercial work; high shadow detail; no replenisher. Packed in 1 qt., plastic lined cans, to make 1 gal. Price on request.

Formula 72. For film and paper; in solution; combination dev.; medium grain; normal emulsion speed; high contrast; cold tones with paper; normal gradation; no replenisher. Packed in 1 qt., plastic lined cans, to make 1 gal. Prices on request.

MFR., Urell, Inc.

VON-L

Von-L Paper Developer. For paper; concentrate solution; variable contrast; full gradation; very low fog level; clean whites; recommended for bromide and chlorobromide papers only. Prices, 16 oz. bottle to make 3 gal., $2.25; 1 gal. to make 20-30 gal., $16.50.

Von-L S-35 Concentrate. For film; concentrate solution; combination chemical-physical dev.; fine grain; gradual dev.; variable contrast; fine shadow detail. Prices, 2 oz. bottle to make 1 qt., $3; 4 oz., $5.50; 10 oz. to make 1 gal., $8.75.

Von-L Gold XXEF Concentrate. For film; concentrate solution; high contrast; rapid dev. time; especially for negatives exposed by electronic flash. Price, 10 oz. bottle to make 1 gal., $8.75.

Von-L Gold XX Concentrate Industrial. For film; concentrate solution; combination dev.; fine grain; gradual dev.; for extreme contrast; good shadow detail; long working life. Price, 12-oz. bottle to make 1 gal. (1.5 gamma), $8.75.

Von-L Gold XX Concentrate Press. For film; single solution; combination dev.; fine grain; rapid dev.; normal contrast; good shadow detail; clear highlights; full-scale gradation; concentrate solution. Price, 10-oz. bottle to make 1 gal. (1. to 1.2 gamma), $8.75.

Von-L Gold XX Concentrate Commercial. For film; single solution; combination dev.; fine grain, gradual dev.; contrasty; good shadow detail; clean highlights; concentrate solution. Price, 10-oz. bottle to make 1 gal. (1.25 gamma), $8.75.

Von-L Gold XX Amateur Concentrate. For film; single solution; combination dev.; gradual dev.; fine grain; normal contrast; good shadow detail; full-scale gradation; good highlights; long working life; concentrate solution. Prices: 2-oz. bottle to make 1 qt. (.74 to 1. gamma), $2.50; 4-oz. bottle to make 2 qts., $4.50; 10-oz. bottle to make 1 gal., $8.75.

MFR., Mon-Blanc Chemical Co.

DEVELOPING TANKS

ANSCO

Adjustable for all sizes of roll film from 35-mm to No. 116; self-loading; spring-grip reel; plastic; daylight type. Price, $4.95.

MFR., Ansco

BACO PLASTIC TANK

Sheet film, filmpacks; 4x5 inches; plastic construction; light-proof cover; rounded corner; takes 18 Baco hangers; 12 Kodak 4A hangers. Price, $7.68, including tax.

BACO STEEL

Similar in features and characteristics as the plastic model, except is made of stainless steel and available in 4x5 and 5x7 inch models. Price, $9.65, including tax.

MFR., Baco Accessories Co.

BIBER PATERSON

Self-loading, adjustable for No. 127, 120, 620, 116 roll film; built-in agitator; also available for 35-mm film. Price, $5.15.

DIST., Biber Foto Corp.

BICO HARD RUBBER

With light-tight cover; takes up to 14 hangers. Price, $6.95.

MFR., Biber Foto Corp.

CINE REEL HOME

For 16 or dbl. 8 mm film; up to 100 feet; liquid capacity 1 gal.; Allegheny metal construction; has take-up bar to counteract film stretch; includes reel, tray, and drying rack. Price, $19.95.

DIST., Superior Bulk Film Co.

CUT-PLATE

For sheet film and plates, 2¼x3¼ to 4x5; adjustable; daylight type; takes 6 films or plates; 16 oz. liquid capacity; Bakelite construction; built-in washing device; built-in temperature calculator. Price, $9.98.

DIST., General Photo Supply Co.

DEEPSTER

Roll film; full length deep tanks; 35 mm to No. 120; liquid capacity 1 gal.; no reel; plastic construction; film is held by clips in vertical position; sets of two tanks, one for developer, and other for fixing bath. Price, for both tanks, wall brackets, light-tight caps, and film clips, $6.95, tax included. Available accessories include 14 exp. 35-mm holder. Special model available for larger roll films.

MFR., Glen Camera Products.

ELKAY ROLL FILM

Rollfilm, 35 mm to No. 616; adjustable; daylight type; bakelite construction; thermometer well; wet or dry loading; liquid capacity 16 to 26 oz. Price, $3.95.

ELKAY CUT FILM

Sheet film and filmpack up to 3½ inches; adjustable; bakelite construction; thermometer well; adjustable reel; capacity 12 sheets. Price, $5.25.

ELKAY CUT-FILM-PACK

Sheet film and filmpacks up to and including 4x5; adjustable; hard rubber construction; funnel-type cover; removable bakelite rack; capacity of 12 sheets. Price, $9.95.

ELKAY RUBBER

3 sizes, 4x5, 5x7, and 8x10; takes sheet film or filmpacks; open type; fitted rubber dust cover; acid and alkali proof.

4x5 holds 2 hangers; liquid capacity 2 qts. Price, $4.50.

5x7 holds 15 5x7 hangers, 20 4x5 hangers; capacity 4 qts. Price, $5.95.

8x10 holds 20 8x10 hangers, 30 5x7 hangers; liquid capacity 3½ gals. Price, $9.50.

ELKAY NO. 111

Takes 5x7 sheet film, filmpack or plates; liquid capacity 1 gal.; vulcanized hard rubber construction; light proof mushroom cover. Price, $8.25.

MFR., Elkay Photo Products Co.

ENVOY BAND TANK

Four sizes, 2¼x3¼ to 9x12 cm; sheet film, filmpacks, and plates; darkroom type; capacity, 4 sheets; liquid capacity 5 oz.; bakelite construction; stainless steel reel. Price, $7.

Rollfilm tank for 35-mm or 120—620; darkroom type; capacity 1 roll; liquid capacity 4 oz.; bakelite construction; spigot in base; cellulose apron. Price, $5.

DIST., Delta Foreign Sales Corp.

ESSEX

For 35-mm roll film; daylight type; capacity 1 roll 35-mm; hard rubber construction; daylight loading; built-in device for film cutting so unexposed film can be saved; built-in thermometer. Price, $22.50.

DIST., General Photo Supply Co.

FEDCO ADJUSTABLE

Takes film sizes from 35 mm to No. 116; daylight; adjustable; bakelite construction. Price, $3.25.

FEDCO SHEET FILM

Sheet film; 2¼x2¼ to 2¼x3½ inches; adjustable; capacity of 12 sheet films; bakelite construction; reel fits most roll film tanks. Price, $3.60.

FEDCO ADJUSTABLE

Sheet film, filmpacks; from 2¼x2¼ to 4x5 inches; adjustable; daylight; capacity of 12 sheets; bakelite construction; loading device. Price, $7.65.

MFR., Fedco Products.

FISHER

Sheet films in sizes up to and including 11x14, in various capacities. Also full processing units including insert tanks in master water jacket for rollfilm, X-ray film, and sheet film from 4x5 to 8x10. Prices on request.

MFR., Oscar Fisher Co., Inc.

FR ADJUSTABLE

Sheet film and filmpacks, 4½x6 cm to 4x5 inches; capacity for 12 films; adjustable; daylight; plastic construction; liquid capacity 52 oz. Price, $9.00, including tax.

FR SPECIAL MODEL 2

Takes rolls from 35 mm to No. 116; adjustable; daylight; liquid capacity 16 oz.; plastic construction; built-in thermometer well; locking cover. Price, $3.40, including tax. Double flange for multiple film development available as an accessory.

MFR., The FR Corp.

JOHNSON

For 35-mm film; daylight type; takes one roll of 36 exposures; Bakelite construction; two way agitation; built-in temperature calculator. Price, $6.95.

For No. 120 roll film; daylight type; 1 roll capacity; 10½ oz. capacity; plastic construction; two-way agitation by spring and rotary action; built-in calculator disk for time and temperature. Price, $5.95.

KENT 20

For No. 120 roll film; daylight type; one roll capacity; 8 oz. liquid capacity; Bakelite construction; separates film from paper backing and develops, all in daylight operation. Price, $16.95.

DIST., General Photo Supply Co.

KINOPLEX

35-mm rolls; darkroom loading; daylight developing; takes up to 36-exp. rolls; liquid capacity 11 oz., not adjustable; all bakelite construction; agitation by horizontal and vertical movement. Price, $3.15.

DIST., Mimosa-American Corp.

KODACRAFT ROLL

Takes rolls from 127 to 616-116; daylight type; plastic construction; loading by acetate aprons supplied for film sizes. Price, $2.53.

KODAK DAY-LOAD

For 35 mm developing; exposed film transferred to reel in daylight; stainless steel and plastic construction; internal cut-off knife; magazine chamber and top form unit. Price, $9.30.

KODAK HARD RUBBER

Sheet film or plates 4x5 inches; open type; up to 6 films in hangers; liquid capacity ½ gal.; floating lid. Price, $3. Available in 5x7 inch size, $4; 8x10 size, $8.85.

MFR., Eastman Kodak Co.

LEITZ CORREX

35 mm; takes 6 feet of film; liquid capacity 16 oz., bakelite construction; bakelite reel; accommodates two films back-to-back; available accessories include agitators. Price, $9.

MFR., E. Leitz, Inc.

LOADOMAT 20

Takes rolls No. 120 and No. 620; daylight type; liquid capacity 12 oz.; stainless steel and bakelite construction; automatic loading; hands never touch film; recommended for color work. Price, $10.95.

MFR., Yankee Photo Products Corp.

MICRO RECORD D 11

8-mm to 35-mm roll film; daylight type; takes up to 200 ft.; plastic construction; motor driven; automatic

Manufacturers' and distributors' addresses begin on page 194

loading. Price $159, F.O.B.

MICRO RECORD D 21

For micro film processing; up to 100 feet of 70-mm film; plastic construction; motor driven; automatic loading. Price, $237, F.O.B.
MFR., Micro Record Corp.

●

MINOX

Takes Minox 9.5-mm film; daylight type; plastic construction; liquid capacity 1 oz. Price $9.90. Agitator-thermometer $.60.
DIST., Minox, Inc.

●

MORSE 5x7

Takes sheet film sizes from 3¼x4¼ to 5x7 inches; capacity of 6 films; liquid capacity ½ gal.; darkroom type; hard rubber construction. Price, $3.

Model available with same characteristics except has capacity for 16 films; liquid capacity 2 gals. Price, $6.36, plus tax.

MORSE G-3 DEVELOPER

Takes rolls from 16 to 35 mm; capacity 100 feet; adjustable; daylight type; liquid capacity 3 pts.; bakelite construction; stainless steel reels; for either negative or reversal processing; automatic agitation; for black-and-white, or color. Price, $22.50.

MORSE M-70 COLOR

Takes sheet film 3¼x4¼ to 5x7 inches; capacity for 6 films; darkroom type; liquid capacity ½ gal.; stainless steel water jackets with splash guards; thermometer well; 3 sizes for accommodating from three to eight hard rubber tanks with floating covers; water circulation; portable. Prices range from $52.50 to $110.

MORSE 507 DAYLIGHT

Takes sheet film 3¼x4¼ to 5x7 inches; capacity for 16 films; daylight type; stainless steel and hard rubber construction; includes light-tight film holder and lid; 3 solution tanks; 2 floating covers; no handling of film loading until drying. Price, $42.50.

MORSE M-10

Takes rolls from 35 mm to 9½ inch size widths; adjustable; capacity from 5 to 200 feet; darkroom type; stainless steel construction; motor-driven; automatic reversing. Price, $325.
MFR., The Morse Instrument Co.

●

NIKOR

Stainless steel tank for roll film; daylight type; not adjustable; with reel and loader.

No. 1 for size No. 127 (1⅝x1⅝ to 1⅝x2½); 16 oz. maximum capacity; $7.62.

No. 2 for size No. 120 (1⅝x2¼ to 2¼x3¼); 16 oz. maximum capacity; $7.62.

No. 4 for size No. 116 (2x2½ to 2½x4½); 16 oz. maximum capacity; $7.62.

No. 5 for size No. 122 (3¼x4¼ to 3¼x5½); 20 oz. maximum capacity; $10.41.

No. 6 for size No. 118; 20 oz. capacity; $10.41.

No. 33 for two 35 mm rolls; 16 oz. maximum capacity; $10.70.

No. 35 for one 35 mm roll; 8 oz. maximum capacity; $6.67.

Multiple tank; daylight type; takes 2 reels No. 120 or 4 35-mm reels; 30 oz. capacity. Price, $7.12; all roll film reels, $3.84.

Extra tall cans; with plain cover and lifting rod, without reels.

12½ inch to take 8 35-mm or 4 No. 120 reels; capacity approx. ½ gal., $10.28.

17 inch to take 11 35-mm or 6 No. 120 reels; capacity approx. ¾ gal., $12.09.

22 inch to take 14 35-mm or 8 No. 120 reels; capacity approx. 1 gal., $13.40.

Miniature cut film tank; stainless steel; daylight type; takes 12 sheets, cut film only, sizes 2¼x3¼, 2½x3½, 6x9-cm and 6½x9-cm without adjustment. Price, with rack and loaders, $7.87; rack and loaders with converting ring for use in any Nikor roll film tank (except No. 35), $3.30.

NIKOR SHEET FILM

Stainless steel daylight developing tank with capacity of 12 films in sizes from 2¼x3¼ to 4x5 inches; liquid capacity 36 oz.; adjustable film cage. Price, $15.55.
DIST., Burleigh Brooks Co.

●

PHOTAX

Rollfilm, 35-mm to No. 116; adjustable; daylight type; bakelite construction; bakelite reel; positive locking film spiral on reel; liquid capacity 16 oz. Price, $4.95, inc. tax.

PHOTAX TROUGH

For rollfilm, 35-mm to No. 116; adjustable; open type; plastic construction; hard rubber loader; capacity of 1 roll; liquid capacity 8 oz. Price, $1.49, inc. tax.
DIST., General Photographic Supply Co.

●

PRICE MONOTANK 45

Sheet film, filmpacks, or plates, up to 4x5 inches; daylight type; up to 12 films; liquid capacity 2 qts.; plastics construction; can process various sizes of film at one time. Price, $5.95, including tax.
MFR., Price Industries Corp.

●

REELRITE

35-mm to No. 116 rolls; daylight type; liquid capacity 26 oz.; plastic construction; bakelite reel; adjustable; available accessories include transparent reels for color processing. Price, $2.95.
MFR., Testrite Instrument Co., Inc.

●

SUPERB

Takes rolls from 35 mm to No. 116, adjustable; daylight type; plastics construction; positive lock cover; thermometer well; spiral feed reel. Price, $3.25.
DIST., Willoughby's.

●

SUPER UNIPLEX DAYLIGHT AUTOMAT

Roll film sizes No. 120, No. 620; daylight type; not adjustable, liquid capacity 18 oz.; Allegheny metal construction; bakelite reel; good agitation. Price on request.

UNIPLEX

Roll film; adjustable from 35-mm to No. 116; capacity to 20 oz.; darkroom loading; daylight developing; bakelite construction; agitation by horizontal and vertical movements; accessories include funnel. Price $3.45.
DIST., Mimosa-American Corp.

●

VERTICAL TANKS

Takes sheet paper, sizes 5x7 to 8½x14; adjustable; darkroom; capacity of 6 sheets; liquid capacity, 6 quarts; stainless steel construction; stainless steel holder. Price, including 6 racks, $42.50.
MFR., General Photo Products Co., Inc.

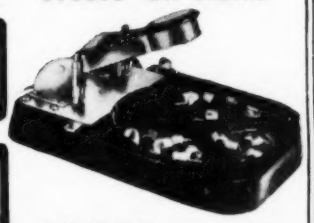
●

WATSON

For 35 mm roll film only; daylight type; stainless steel construction; bakelite reel. Price, $3.50.
MFR., Burke & James, Inc.

PLASTIC BIND YOUR ALBUMS

RIGHT IN YOUR STUDIO OR HOME



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TAUBER-TUBE PERMANENT

All the equipment you need to plastic bind albums in any shape or size is included in the Tauber Plastic Binding Kit. This wonderful time and money saving kit comes complete with punching machine and over 150 plastic Tauber Tubes.

All of the pages of your albums lie flat, no matter where they are opened. The brilliantly colored Tauber-Tubes will enhance the appearance of your albums.

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Super Precision 35mm Single Lens Reflex Camera

With Pre-Set Diaphragm Control from $139.50* list

- Fully Synchronized (F-X) for Speedlights and Flashbulbs
- Focal Plane Shutter with Nine Speeds: ½ sec. to 1/500th
- Combined Reflex Finder and Eyelevel Sports Finder
- Built-in Magnifier for Reflex Focusing
- Easy Lens Interchangeability
- Film Transport Automatically Sets Shutter and Film Counter
- Automatically Prevents Unintentional Double Exposures

Complete selection of accessories available including

PRISMFINDER, TELE & WIDE ANGLE LENSES, EXTENSION TUBES, FLASHGUN, BELLOWSCOPE, FILTERS & SHADES AND MICROSCOPE ADAPTER.

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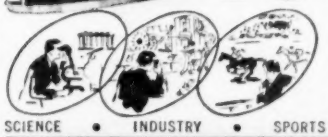


SCIENCE • INDUSTRY • SPORTS

Authorized Sales and Service Agency

KINE CAMERA CO. 11 West 20th St., New York 11, N. Y.

FILM DATA CHART

This convenient film chart has been prepared to assist the camera owner in quickly finding information relative to certain films which he may use. It is not intended as a comparison of the products of one manufacturer with those of another. Film speeds are given only in ASA exposure index and Weston numbers, the rating systems used with exposure meters now being manufactured in the United States.

FILM	TYPE	ASA EXPOSURE INDEX (h)		WESTON SPEEDS** (Weston's Figures)		SPECIAL CHARACTERISTICS, USES, ETC.	FILTER FACTORS: Light Yellow		Medium Yellow		Orange		Red		Light Green		Dark Green	
		DAY	TUNG.	DAY	TUNG.		D.	T.	D.	T.	D.	T.	D.	T.	D.	T.	D.	T.
ANKEN																		
ROLL FILM																		
ANKEN	ORTHO			50	32	Good Resolution; for General Amateur Use	2		2									
ANSCO																		
35-mm SPOOLS																		
(a)ULTRA-SPEED PANCHROMATIC	PAN	100	64	100	64	Extremely Fast; for Unfavorable Light	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(a)SUPREME	PAN	50	32	50	32	Very Fast; Fine Grain; Fully Color Sens	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(z)ANSCO COLOR DAYLIGHT	COLOR	12	3§	10	2(h)§	Positive Color Trans.; Can be Processed by User; Screenless, Practically Grainless												
(z)ANSCO COLOR TUNGSTEN	COLOR	12§	12	10(h)§	10													
ROLL FILM & FILMPACKS																		
SUPERPAN PRESS	PAN	125	80	100	64	Extremely Fast; Press; Adverse Lighting												
SUPREME	PAN	50	32	50	32	Medium Speed; Fine Grain; General Work	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(d)PLENACHROME	ORTHO	50	25	50	32	General Outdoor Work; Wide Exposure Lat.	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(d)ANSCO COLOR DAYLIGHT	COLOR	12		10		Positive Color Trans.; Can be Processed by User; Screenless; Practically Grainless; 120 & 620 Only	2	1.5	3	2	6	4			4	3	5	4
(d)ANSCO COLOR TUNGSTEN	COLOR		12		10													
SHEET FILM																		
TRIPLE S PAN	PAN	200	160	200	125	Extreme Speed; for Press, Portraits, Etc.	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
SUPERPAN PRESS	PAN	125	80	100	64	High Speed; for Press, Indoors, Action	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
ISOPAN	PAN	50	32	50	32	Medium Speed; Fine Grain; Good Contrast	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
SUPERPAN PORTRAIT	PAN	50	32	50	32	Medium Speed; Fully Color Sens.; Mod. Grain	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
TRIPLE S ORTHO	ORTHO	125	64	100	64	High Speed; Wide Latitude; Portrait, Comm.	2	1.5	3	2	6	4			4	3	5	4
COMMERCIAL ORTHO	ORTHO	25	12	24	16	Fine Grain; for Copy, Commercial, General	2	1	3	2	6	4			4	3	5	4
ANSCO COLOR DAYLIGHT	COLOR	10		8		See Roll Film												
ANSCO COLOR TUNGSTEN	COLOR		10		8	See Roll Film												
COMMERCIAL	BL. SENS.	25	6	24	8	Mod. Speed; Non-Color Sens.; Copying												
PROCESS	BL. SENS.		6	12	4	High Contrast; Line Copy, Etc.												
DUFAY-CHROMEX																		
DISTS.: Continental Photographic Laboratories; General Photographic Supply Co.																		
35-mm SPOOLS																		
DUFAYCOLOR (D2 Standard)	COLOR	8	4§	6(h)	3(h)§	Positive Color Trans.; Can be Processed by User; Additive Micro Screen Type												
SUPER 50 PAN	PAN	64	40	50(h)	30(h)	Fine Grain; Medium Speed; Wide Latitude												
ROLL FILM																		
DUFAY SUPER 80	ORTHO	100	64	80(h)	50(h)	High Speed Ortho; General Purpose												
DUFAY SUPER 100	PAN	125	80	100(h)	64(h)	Fine Grain; High Speed; Wide Latitude	1.75	1.25	2.25	1.25	3	1.5	6.5	6.5	4	3.5	5	4.5
DUFAYCOLOR (D2 Standard)	COLOR	8	4§	6(h)	(3h)§	Positive Color Trans.; Can be Processed by User; Additive Micro Screen Type												
SHEET FILM																		
DUFAYCOLOR (D2 Standard)	COLOR	8	4§	6(h)	3(h)§	For Portraiture & General Commercial Repro. in color												
DUFAYCOLOR (D4 Process Medium)	COLOR	6	2	4(h)	5(h)§	High Contrast; General Commercial Repro. in color												
DU PONT																		
SHEET FILM							(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
HIGH SPEED PAN—TYPE 428	PAN	160	125	125(h)	100(h)	All Purpose; Medium Grain; Extra Fast	1.2	1.2	1.5	1.5	2.5	2	6	4	4	3.5	1.8	1.5
ARROW PAN	PAN	160	125	100	64	High Speed; Press and Commercial	1.2	1.1	1.5	1.3	1.8	1.2	4.3	3	4	3		
X-F PAN	PAN	64	40	50	32	For General Use; Fully Color Sensitive	1.5	1.3	2	1.5	3	1.8	9	4.5	4	3		
X-F ORTHO	ORTHO	64	32	50	16	Extra Fast; Portraiture, Flash, News	1.7	1.5	4	2	5	3			4.5	3		
FINE GRAIN PAN	PAN	32	20	24	16	Medium Speed; Fine Grain; Wide Latitude	1.3	1.2	1.8	1.5	2.6	2.2	9.5	4.5	4.5	3		
PROCESS PAN	PAN	16	10	12	8	High Contrast, for All Copy Work	1.6	1.2	1.8	1.5	2.4	1.8	8.2	4.5	4.5	6		
COMMERCIAL	BL. SENS	24	6	24	8	Clear Brilliant Gradation; for Comm. & Copy	4	3	12	9								

Manufacturers' and distributors' addresses begin on page 194

EASTMAN																		
35-mm SPOOLS; 828 ROLLS																		
(z)(a) KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	Type B Pan; for Indoor-Outdoor; High Speed	1.5	1.5	2	1.5	3	2	8	4	4	3		
(z)(a) KODAK PLUS-X PANCHROMATIC	PAN	50	40	50	32	Fine Grain; Gen'l Miniature Work; Type B	1.5	1.5	2	1.5	3	2	8	4	4	3		
(z) KODACHROME DAYLIGHT TYPE	COLOR	10	2.5§	8	3(c)	Color Transparency; Screenless, Practically Grainless; Processed by Mfr.; for Projection and Prints												
(z) KODACHROME TYPE A	COLOR	10§	16	8§	12													
(y)(a) KODAK INFRARED	BL. & I. R.		20(b)		8(b)	Use with Red Filter; Unusual Effects												
(y)(a) KODAK MICRO-FILE	PAN		16		12	Copy Books, Newspapers, Letters, Etc.				1.5		2		6				
ROLL FILM & FILM PACKS																		
KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	High Speed; Type B; Poor Light and Indoors	1.5	1.5	2	1.5	3	2	8	4	4	3		
KODAK PLUS-X PANCHROMATIC	PAN	50	40	50	32	Fine Grain; Wide Latitude; General Use	1.5	1.5	2	1.5	3	2	8	4	4	3		
(d) KODAK VERICHROME	ORTHO	64	32	50	32	High Speed Ortho; General Outdoor Use	2	1.5	2.5	2	5	3						
(d) KODACOLOR DAYLIGHT TYPE	COLOR	25		20		For Color Snapshots; for Color Prints												
(d) KODACOLOR TYPE A	COLOR	12§	20			For Color Snapshots; for Color Prints												
KODAK EKTACHROME DAYLIGHT	COLOR	8		6		120 & 620 only; For Processing by User with Processing Kit												
KODAK EKTACHROME TYPE B	COLOR	6§	10															
SHEET FILM																		
KODAK TRI-X PANCHROMATIC	PAN	200	160	200	125	Extreme Speed; Type C; Mod. Contrast, Grain	1.5	1.5	2	1.5	2.5	2	6	3	5	4	6	5
KODAK SUPER PANCHRO-PRESS TYPE B	PAN	125	100	100	64	Very Fast; for Press, Commercial, Flash	1.5	1.5	2	1.5	3	2	8	4	4	3		
KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	High Speed; Type B; General Use; Color Sep.	1.5	1.5	2	1.5	3	2	8	4	4	3		
KODAK PORTRAIT PANCHROMATIC	PAN	50	32	50	32	Type B; Moderate Speed; Portrait & General	1.5	1.5	2	1.5	3	2	8	4	4	3		
KODAK PANATOMIC-X	PAN	32	25	24	16	Type B; Extreme Fine Grain; General Use	1.5	1.5	2	1.5	3	2	8	4	4	3		
KODAK ORTHO-X	ORTHO	125	64	100	64	Fast Ortho; Portrait, Commercial, Etc.	2	1.5	2.5	2	5	3						
KODAK SUPER ORTHO PRESS	ORTHO	100	50	100	32	Fast Ortho for Press; Commercial; Flash	2	1.5	2.5	2	5	3						
KODAK COMMERCIAL ORTHO	ORTHO	32	10	24	8	Med. Speed; Commercial; Copy	2.5	2	8	4	16	8						
KODAK INFRARED	BL. & I. R.		20(b)		8(b)	See 35-mm; Haze Penetration, Scientific												
KODAK COMMERCIAL	BL. SENS.	25	6	24	8	Medium Speed; Copy; Commercial												
KODAK CONTRAST PROCESS ORTHO	ORTHO		60		40	High Contrast; Copying Line, Printed Matter		1.5		2		4						
KODAK CONTRAST PROCESS PAN	PAN		80		64	High Contrast; Copying Colored Originals				1.5		2.5		5				
KODAK EKTACHROME DAYLIGHT TYPE	COLOR	8		6		Positive Color Transparencies; Can be Processed by User with Processing Kit												
KODAK EKTACHROME TYPE B	COLOR	6(p)	10	5(p)	8													
KODAK EKTACOLOR	COLOR	5§	8			Color Negative Film; For Processing by User with Processing Kit												
KODAK EKTACOLOR PRINT FILM	COLOR					For Positive Color Transparencies from Kodak Ektacolor Negs												
KODAK MATRIX FILM	BL. SENS.					For Making Color Prints from Color Separation negatives by Kodak Dye Transfer Process												
KODAK PAN MATRIX FILM	PAN					For Making Color Prints from Kodak Ektacolor Negatives by Kodak Dye Transfer Process												
GEVAERT																		
35-mm SPOOLS																		
GEVAPAN 27	PAN	32	20	24(h)	16(h)	Fine Grain; for Extreme Enlargements	1.5		2		3		5		3			
GEVAPAN 30	PAN	64	40	50(h)	32(h)	For General Amateur Use; Wide Latitude	1.5		2		3		5		3			
GEVAPAN 33	PAN	125	100	100(h)	80(h)	High Speed Pan	1.5		2		3		5		3			
ROLL FILM																		
GEVACHROME	ORTHO	64	32	50(h)	24(h)	For General Amateur Use and Outdoors	2		2.5									
GEVAPAN 33	PAN	125	80	100(h)	64(h)	High Speed Pan	1.5		2		3		5		3			
SHEET FILM																		
GEVACHROME	ORTHO	100	50	80(h)	40(h)	Fast Orthochromatic; for General Use	2		2.5									
SUPERCHROME	ORTHO	64	32	50(h)	24(h)	Medium Speed Orthochromatic												
GEVAPAN	PAN	125	80	100(h)	64(h)	High Speed Pan; General and Studio Use	1.5		2		3		5		3			
PANCHROMOSA	PAN	80	50	64(h)	40(h)	Fast Pan; General and Studio Use	1.5		1.5		2		6					
McGREGOR																		
35-mm SPOOLS																		
McGREGOR COLOR FILM	COLOR	10	16	8	12	For Positive Color Transparencies, screenless, practically grainless, selective reversal dye-coupler processing												
SUPER-TOMIC																		
Dist.: Embassy Photo Prod., Inc.																		
35-mm SPOOLS																		
(a) SUPER-TOMIC	PAN	250	160	200	125	Super-Speed; Ultra Fine Grain; Moderate Contrast	1.5	1.5	2	1.5	2.5	2	6	3	5	4	6	5
(a) SUPER-TOMIC COLOR, DAYLIGHT	COLOR	125	40§	100	25§	Positive Color Transparencies; Processed by Mfgr.												
(a) SUPER-TOMIC, UX-650	PAN	650	320	500	250	High Speed; grain; for versatile cameras	1.5	1.5	2	1.5	2.5	2	6	3	5	4	6	5
(a) SUPER-TOMIC, OX-320	ORTHO	320	160	250	125	Super-Speed orthochromatic; mod. grain	2.5	1.5	3	2	5	3			4	3	5	4
WEIMET																		
35-mm CARTRIDGES																		
GREEN SEAL HIGH SPEED PAN	PAN	64	40	50(h)	32(h)	Fine Grain; Medium Contrast; General Use	1.5		2		3		8		3		5	
ROLL FILM																		
GREEN SEAL HIGH SPEED PAN	PAN	64	40	50(h)	32(h)	As Above; Also Mycro Size for Sub-min. Cameras	1.5		2		3		8		3		5	

NOTES: ASA exposure indices are determined in accordance with a standard procedure set up by the American Standards Association, and are used in calibrating most exposure meters now being made. Where official Weston ratings are given they are supplied by Weston Electrical Instrument Corp.

** Group numbers, representing the mean value of a group of 3 consecutive emulsion speeds.
§ With filter recommended by manufacturer.
(a) Also obtainable in bulk.
(b) With Kodak Wratten A filter (No. 25).
(c) With Kodak Wratten filter No. 80A.
(d) Obtainable in rolls only.
(g) Exact filter factors for sheet films determined for each batch and enclosed with film.
(h) Figures furnished by manufacturer.
(m) For "B" filter.
(n) For C5 filter.
(p) With Kodak Wratten filter No. 85B.
(t) Read meter on white surface placed over copy work.
(y) 35 mm only.
(z) Also available in 20-exposure cartridges.

Manufacturers' and distributors' addresses begin on page 194

AMATEUR MOVIE FILM DATA CHART

Film Width in mm	FILM NAME	TYPE Blue Sens., Orthochromatic, Panchromatic, Full Color	A.S.A. EXPOSURE INDEX Day	A.S.A. EXPOSURE INDEX Tung.	WESTON SPEEDS** (Weston's Figures) Day	WESTON SPEEDS** (Weston's Figures) Tung.	LENGTHS in FEET AND PACKING D.L. = Daylight Loading; Mag. = Magazines; B = Bulk	SPECIAL CHARACTERISTICS, FEATURES, AND USES	Processing	POPULAR FILTER FACTORS (Daylight Only) Med. Yellow	Orange	Red
	ANSCO											
16	Hypan Reversible (s)	Pan	40	32	32	24	50, 100, 200, 400 ft. D.L. Rolls, 50 ft. Mag.	Fine Grain; for General Use; Good Latitude	Free	2	3	8
16	Supreme Negative (s)	Pan	50	32	50	32	100, 200 ft. D.L. Rolls	For Negative Film; Fine Grain; Wide Latitude	Extra	2	3	8
16	Ansco Color Daylight Type (s)	Color	10		8		50, 100, 200 ft. D.L. Rolls; 50 ft. Rolls 50 ft. Mag.	Full Natural Color Film; Screenless; Will be Processed by the Manufacturer	Free			
16	Ansco Color Tungsten Type (s)	Color		12		12	50, 100, 200 ft. D.L. Rolls; 50 ft. Rolls		Free			
Dbl. 8	Hypan Reversible	Pan	40	32	32	24	25 ft. D.L. Rolls, 25 ft. Mag.	Fine Grain; Good Latitude; for General Use	Free	2	3	8
Dbl. 8	Ansco Color Daylight Type	Color	10		8		25 ft. Mag.	Full Natural Color Film, Fine Grain, will be processed by Manufacturer				
	BAUCHET (Dist. General Photo Supply Co.)											
16	Bauchet Reversible	Pan	100	64			100 ft. Rolls	Fine Grain, Anti-Halo Backing, Wide Latitude; Processing Not Included	Optional	2	2.5	5
16	Bauchet Reversible	Pan	50	32	40		100 ft. Rolls	Same as above	Optional	2	2.5	5
Dbl. 8	Bauchet Reversible	Pan	100	64			25 ft. D.L.	Same as above	Optional	2	2.5	5
Dbl. 8	Bauchet Reversible	Pan	50	32	40	24	25 ft. D.L.	Same as above	Optional	2	2.5	5
	CENTURY PHOTO SUPPLY				(h)	(h)						
16	Rocket-XXX Reversal	Pan	200	160	120	80	100 ft. D.L. Rolls; 50 ft. Mag.	Very High Speed; Normal Grain	Free			
16	Century Cinetomic Reversal	Pan	20	5	16	4	100 ft. D.L. Rolls; 50 ft. Mag.	Fine Grain; Non-halation	Free			
Dbl. 8	Century Cinetomic Reversal	Pan	20	5	16	4	25 ft. D.L. Rolls	Same as above	Free			
	DU PONT				(h)	(h)						
16	301 Pan (Neg.)	Pan	64	40	50	32	100 ft. D.L.; 400, 800, 1000, 1200 ft. Bulk	Fine Grain; Wide Latitude; Good Rendition of Flesh Tones	Extra			
16	314 Pan (Neg. or Rev.)	Pan	40	25	32	20	Same as above	Fine Grain; Wide Latitude; Medium Speed	Extra			
16	330 Rapid Reversal Pan	Pan	64	40	50	32	Same as above	Esp. for Rapid Reversal; Fine Grain; Wide Lat.; Television and Motion Picture Production	Extra			
	DYNACOLOR				(h)	(h)						
16	Dynacolor, Daylight Type	Color	10	4(a)	8	3(a)	100 ft. D. L. Rolls; 50 ft. Mag.		Free			
16	Dynacolor, Tungsten Type	Color	10(a)	16	8(a)	12	Same as above	Full Natural Color Film; Subtractive Dyed Image Type; Screenless; Practically Grainless; Tungsten Type is Color Balanced for Photoflood Illumination	Free			
Dbl. 8	Dynacolor, Daylight Type	Color	10	4(a)	8	3(a)	25, 100 ft. D.L. Rolls		Free			
Dbl. 8	Dynacolor, Tungsten Type	Color	10(a)	16	8(a)	12	Same as above		Free			
	EASTMAN									Med. Yellow	Yellow	Red
16	Cine-Kodak Super-XX Panchromatic (Rev.)	Pan	100	80	100	80	50, 100, 200 D.L. Rolls; 50 ft. Mag., for others see (e)	High Speed Type C Pan; Indoor, Slow Motion	Free	2	2	8
16	Cine-Kodak Super-X Panchromatic (Rev.) (s)	Pan	40	32	32	24	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Fine Grain; Good Contrast; Type C Pan	Free	2	2	8
16	Cine-Kodak Kodachrome, Daylight Type (s)	Color	10	4(a)	8	3(a)	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Full Natural Color Film; Subtractive Dyed Image Type; Screenless, Practically Grainless; Tungsten Type Balanced for Photoflood Illumination	Free			
16	Cine-Kodak Kodachrome, Type A (Photoflood) (s)	Color	10(a)	16	8(a)	12	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)		Free			
Dbl. 8	Cine-Kodak Super-X Panchromatic (Rev.)	Pan	40	32	32	24	25 ft. D.L. Rolls; 25 ft. Mag.	Fine Grain; Good Contrast; Type C Pan	Free	2	2	8
Dbl. 8	Cine-Kodak Kodachrome Daylight Type	Color	10	4(a)	8	3(a)	25 ft. D.L. Rolls; 25 ft. Mag.	Full Natural Color Film; Subtractive Dyed Image Type; Screenless, Practically Grainless; Tungsten Type Color Balanced for Photoflood Illumination	Free			
Dbl. 8	Cine-Kodak Kodachrome Type A (Photoflood)	Color	10(a)	16	8(a)	12	25 ft. D.L. Rolls; 25 ft. Mag.		Free			
16	Kodak Super-XX Blue Base Reversal	Pan	125	80			100, 200 ft. camera spools; 400, 1200 ft. Bulk	High Speed Reversal; for processing by user; Type C Pan	By user			
16	Kodak Plus-X Blue Base (s)	Pan	50	32			Same as above	Medium Speed; General Purpose; for processing by user; Type C Pan	By user			
16	Kodak Super-XX Negative	Pan	125	100			100, 200 ft. D.L. Rolls; 400 ft. Bulk	High Speed Panchromatic Negative Film; Type 7232				
16	Kodak Panchromatic Negative (s)	Pan	40	32			Same as above	Medium Speed Panchromatic Negative Film; Type 7230				
16	Kodak Fine Grain Positive (s)	Bl. Sens.		0.6(w)			100, 200, 400 ft. Bulk	For Printing From Negatives, Title Making; Type 7302				
Dbl. 8	Kodak Super-X Blue Base Reversal	Pan	50	32			25 ft. D.L.; 100 ft. for 8-mm Bolex Camera	Medium Speed, General Purpose; for processing by user	By user			
Dbl. 8	Kodak Fine Grain Positive	Bl. Sens.		0.6			100 ft. Bulk	For Printing From Negatives, Title Making; Type 7302				

Manufacturers' and distributors' addresses begin on page 194

Weegee, the world's foremost flash photographer. Author of NAKED CITY and NAKED HOLLYWOOD.

WEEGEE'S SHORTCUTS

TO PRIZE-WINNING FLASH PICTURES

#1 . . . *Fast focusing for action shots*

BY WEEGEE

Prize-winning action shots crop up in a flash. There's no time to focus or use a range finder. Yet editors demand needle sharp pictures. Contest judges accept no others. And there's no reason why you should settle for less.

This month I'll tell you how to focus in a split second. Simply keep your camera set for 10 feet at f/16 indoors. It's perfect for most pictures. Change to 6 feet at f/22 for close-ups. When outdoors shoot 10 feet at f/11 and 6 feet at f/16.

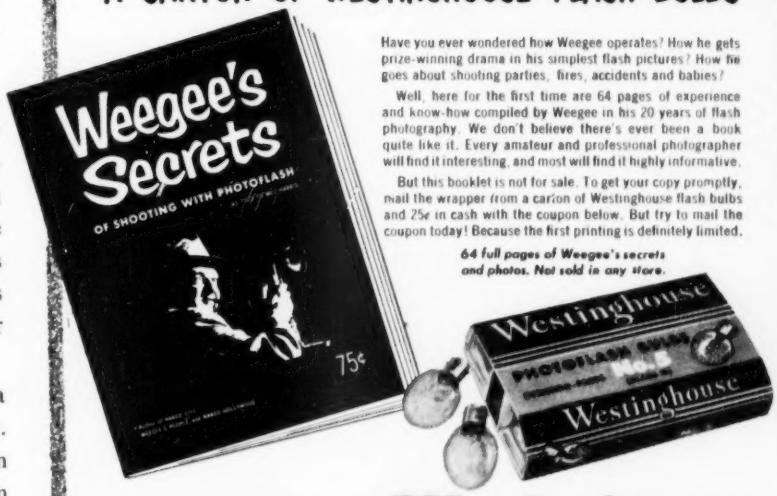
I practice with two objects, one exactly 6 and the other 10 feet from my favorite chair. While relaxing or reading, I glance up and concentrate on these distances. Try it. With a little practice you can guess these lengths to the inch. But don't try to guess the entire scale on your camera. After 20 years I still can't.

Here's another tip. Cameras are a matter of choice. Flash bulbs are not. I and most of my friends who earn our living with a camera insist on Westinghouse Flash Bulbs. Westinghouse bulbs give all the flash you need to freeze the fastest action. I even use them in my daytime shots. And I can honestly say my new book, NAKED HOLLYWOOD, could never have been done without dependable Westinghouse flash bulbs.

Fast focusing, plus other secrets I've picked up in 20 years of photography, are described in my new booklet, WEEGEE'S SECRETS OF SHOOTING WITH PHOTOFLASH. This booklet is not for sale. You can't buy it at any store. But you can get a copy with the wrapper from a carton of Westinghouse Flash Bulbs. Mail the wrapper and coupon below with 25¢ to cover postage and handling.

Next month I'll tell you how I photograph children.

YOURS FOR 25¢ AND THE WRAPPER FROM A CARTON OF WESTINGHOUSE FLASH BULBS



Have you ever wondered how Weegee operates? How he gets prize-winning drama in his simplest flash pictures? How he goes about shooting parties, fires, accidents and babies?

Well, here for the first time are 64 pages of experience and know-how compiled by Weegee in his 20 years of flash photography. We don't believe there's ever been a book quite like it. Every amateur and professional photographer will find it interesting, and most will find it highly informative.

But this booklet is not for sale. To get your copy promptly, mail the wrapper from a carton of Westinghouse flash bulbs and 25¢ in cash with the coupon below. But try to mail the coupon today! Because the first printing is definitely limited.

64 full pages of Weegee's secrets and photos. Not sold in any store.

YOU CAN BE SURE...IF IT'S Westinghouse

Partial list of contents

Photographing children
Putting "Life" into party pictures
Putting Character into portraits
Drama in news photographs
Selling your pictures
Photographer's place at a fire

MAIL THIS COUPON TODAY FOR YOUR COPY

Westinghouse Lamp Division
Dept. P-5
Bloomfield, New Jersey

Rush my copy of WEEGEE'S SECRETS OF SHOOTING WITH PHOTOFLASH. I am enclosing the wrapper from a carton of Westinghouse flash bulbs and 25¢ in coin to cover postage and handling.

NAME _____
ADDRESS _____
CITY _____ ZONE ____ STATE _____

	ESO-S											
16	Hi-Speed (Rev.)	Pan	125	100	100	80	100 ft. and 200 ft. D.L., sound and sil. perf. 50 ft. 16-mm mags, and 100 ft., 400 ft. bulk	SUPER-speed panchromatic reversible film for interiors. Recommended for night photography or pictures which must be taken under adverse conditions.	Free*			
Dbl. 8	Hi-Speed (Rev.)	Pan	125	100	100	80	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
Sgl. 8	Hi-Speed (Rev.)	Pan	125	100	100	80	25 ft. D.L. for B&H Straight 8, Revere C-8 and Univex		Free*			
16	Super Panchro (Rev.)	Pan	32	20	24	16	100 ft. and 200 ft. D.L. sound and sil. perf. 50 ft. 16-mm mags, and 100 ft., 400 ft. bulk	Panchromatic reversible film, for dull days or interior photography. An all-around film for indoor and outdoor use	Free*			
Dbl. 8	Super Panchro (Rev.)	Pan	32	20	24	16	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
Sgl. 8	Super Panchro (Rev.)	Pan	32	20	24	16	25 ft. D.L. for B&H Straight 8, Revere C-8, Univex and Movex 8 mags.		Free*			
16	Standard (Rev.)	Ortho	20	5	16	4	100 ft. and 200 ft. D.L. sound and sil. perf. 50 ft. 16-mm mags, and 100 ft., 400 ft. bulk	Full anti-halo backing, for outdoor use primarily	Free*			
Dbl. 8	Standard (Rev.)	Ortho	20	5	16	4	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
Sgl. 8	Standard (Rev.)	Ortho	20	5	16	4	25 ft. D.L. for B&H Straight 8, Revere C-8, Univex and Movex 8 mags.		Free*			
16	Deluxe Sepia (Rev.)	Ortho	20	5	16	4	100 ft. and 200 ft. D. L. sound and sil. perf. 50 ft. 16-mm mags, and 100 ft., 400 ft. bulk	For outdoor use, and title work. Has characteristic sepia color when finished. Requires no filters	Free*			
Dbl. 8	Deluxe Sepia (Rev.)	Ortho	20	5	16	4	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
Sgl. 8	Deluxe Sepia (Rev.)	Ortho	20	5	16	4	25 ft. D.L. for B&H Straight 8, Revere C-8, Univex		Free*			
16	Daylight Color	Color	10	2½	8	2	100 ft. and 200 ft. D.L. sound and sil. perf. 50 ft. 16-mm mags, and 100 ft., 400 ft. bulk	Full-color, natural. Produced without use of filters. Subtractive dyed image, practically grainless for use in all cameras	Free*			
Dbl. 8	Daylight Color	Color	10	2½	8	2	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
Sgl. 8	Daylight Color	Color	10	2½	8	2	25 ft. D.L. for B&H Straight 8, Revere C-8, Univex and Movex 8 mags.		Free*			
16	Tungsten Color	Color	10 (a)	16	8 (a)	12	100 ft. and 200 ft. D.L. sound and sil. perf. 50 ft. 16-mm mags., and 100 ft., 400 ft. bulk	Full-color, natural. Subtractive dyed image, practically grainless for use in all cameras. May be used outdoors with conversion filter	Free*			
Dbl. 8	Tungsten Color	Color	10 (a)	16	8 (a)	12	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
Sgl. 8	Tungsten Color	Color	10 (a)	16	8 (a)	12	25 ft. D.L. for B&H Straight 8, Revere C-8, Univex		Free*			
16	Negpo	Neg.	10	2½	8	2	100 ft. D.L. sil. perf., also bulk 50 ft. 16-mm mags., and 100 ft., 400 ft. bulk	For title-making. Reverses light values, so that photographing black letters on white background provides white letters on black background	Free*			
Dbl. 8	Negpo	Neg.	10	2½	8	2	25 ft. D.L.; also 100 ft. D.L. for H-8 BOLEX, also bulk 100 ft. and 400 ft. lengths		Free*			
	GEVAERT				(h)	(h)				Light Yellow	Med. Yellow	Deep Yellow
16	Gevapan 32	Pan	100	64	50	32	100 ft. D.L. Rolls	Full Color Sensitivity; Indoors, Outdoors	Free	1.5	2	2
16	Gevapan 26	Pan	25	16	20	10	100 ft. D.L. Rolls	Full Color Sensitivity; General Use	Free	2	2.5	3
16	Gevapan 23	Pan	12	8	10		100 ft. D.L. Rolls	Fine Grain; for Quality Projection	Free	2	2.5	3
Dbl. 8	Gevapan 26	Pan	25	16	20	10	25 ft. D.L. Rolls	Full Color Sensitivity; General Use	Free	2	2.5	3
Dbl. 8	Gevapan 23	Pan	12	8	10		25 ft. D.L. Rolls	Fine Grain; for Quality Projection	Free	2	2.5	3

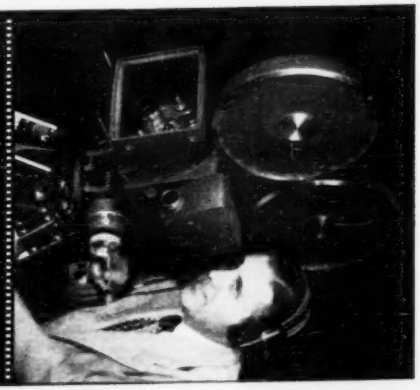
										Med. Yellow	Orange	Red
	KIN-O-LUX											
16	No. 1 Reversal (s)	Bl. Sens.	16	(n)	(h) 12	(h) (n)	50, 100, 200 ft. D.L. Rolls; 400 ft. Bulk	Recommended for Outdoor Use Only				
16	Kin-O-Lux T-V (Rev.) (s)	Pan	64	50	50	40	50, 100, 200 ft. D.L. Rolls	Medium Speed; Designed for Television	Free	2	2.5	5
16	Gold Seal Reversal (s)	Pan	(n)	125	(n)	100	50, 100, 200 ft. D.L. Rolls; 400 ft. Bulk	Use Under Poor Light or Tungsten				
Dbl. 8	No. 2 Reversal	Bl. Sens.	16	(n)	12	(n)	25 ft. D.L. Rolls	Recommended for Outdoor Use Only				
Dbl. 8	Kin-O-Lux T-V (Rev.)	Pan	64	50	50	40	25 ft. D.L. Rolls	Medium Speed; Designed for Television	Free	2	2.5	5
Dbl. 8	Gold Seal Reversal	Pan	(n)	125	(n)	100	25 ft. D.L. Rolls	Use Under Poor Light or Tungsten				
	McGREGOR											
16	McGregor Color Film	Color	10	16	8	12	100 ft. Rolls	Full color film, selective reversal dye-coupler developed subtractive type, screenless and practically grainless				
Sgl. 8	McGregor Color Film	Color	10	16	8	12	25 ft. Rolls	Same as above				
Dbl. 8	McGregor Color Film	Color	10	16	8	12	25 ft. Double Rolls	Same as above				
	SUPER-TOMIC PRODUCTS											
16	Super-Tomic, U-250 (s)	Pan	250	160	200	125	100 ft. D.L. Rolls; Bulk	Extremely High Speed; Fine Grain; Mod. Contrast	By user			
16	Super-Tomic, OX-320 (s)	Ortho	320	160	250	125	100 ft. D.L. Rolls; Bulk	Super-Speed or thochromatic; Mod. Grain	By user	3		4
16	Super-Tomic, UX-650	Pan	650	320	500	250	100 ft. D.L. Rolls; Bulk	High Speed, grain; normal contrast	By user	2	6	5
16	Super-Tomic, Color, Daylight	Color	125	40§	100	25§	50 ft. and 85 ft. D.L., Rolls And Bulk	Full Natural Color; moderate grain; balanced for photo floods with Filter recommended by manufacturer	Free			
	WEIMET											
16	Weimet Green Seal (Rev.)	Pan	40	32	(h) 32	(h) 24	100 ft. D.L. Rolls; 50 ft. Mag.	Fine Grain; Brilliant Contrast; Good Latitude	Free	2	3	8
Dbl. 8	Weimet Green Seal (Rev.)	Pan	40	32	32	24	25 ft. D.L. Rolls	Same as above	Free	2	3	8

NOTES:

ASA exposure indices are determined according to a standardized procedure set up by the American Standards Association. Where official Weston ratings are given they are the latest supplied by Weston Electrical Instrument Corp.

* Free processing on D.L. and Magazines only.
** Group numbers, representing the mean value of a group of 3 consecutive emulsion speeds.
(a) With filter recommended by the manufacturer.
(e) 50 ft. Packettes for Simplex Pockette and Filmo 121.

(h) From figures furnished by the manufacturer or distributor.
(n) Not recommended for use with this illumination.
(s) Also available single perforated for sound.
(w) Trial exposure on white card with no lettering.



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FLASHBULBS

Bulb Designation	Voltage Required to Fire Bulb*	Light Output In Lumen Seconds†	Duration At ½ Peak In Milliseconds (Approx.)	Time to Peak In Milliseconds (Approx.) And Class**	Mean Color Temp. Degrees Kelvin (Approx.)	Special Characteristics, Uses, Etc.	Price Each (Less Tax)
AMPLEX							
SM	3 to 30	4,700	7	6-F	3300 K	Quick flash midget with Bayonet base; 1/200 sec. duration; gas filled.	$0.14
5	3 to 30	16,000	13	21-M	3800 K	Midget bulb for between lens shutter synchronization. Bayonet base.	.13
5A	3 to 30	14,500	13	21-M	3400 K	Like No. 5, for indoor color film, used without filters.	.17
5B	3 to 30	7,500	13	21-M	6000 K	Like No. 5; use with daylight color film, without use of filters.	.17
6	3 to 30	16,000	30	—FP	3800 K	Bayonet base, for high shutter speeds on focal plane cameras.	.15
11	3 to 30	30,000	13	21-M	3800 K	Standard medium screw base; recommended for high-speed synchronization.	.15
11B	3 to 30	13,500	14	21-M	6000 K	Like No. 11; for use with daylight type film indoors, without filters.	.19
22	3 to 125	63,000	14	21-M	3800 K	Standard screw base, for synchronization with all between lens shutters.	.17
22B	3 to 125	29,000	14	21-M	6000 K	Like No. 22. For fast shutter speeds.	.23
31	3 to 30	77,000	53	—FP	3800 K	For focal plane synchronization to 1/1000 sec.	.24
50	3 to 125	95,000	17	30-S	3800 K	Standard screw base. Slow peak. For large gatherings.	.22
50B	3 to 125	43,000	17	30-S	6000 K	Blub bulb, for daylight color film indoors or outdoors without filters.	.28
AMPLEX-NORELCO							
PF3	3 to 30	6,000	8	8-M	3800 K	Ultra-midget flash bulb; blue safety bead.	.11
PF4	3 to 30	11,000	10	10-M	3800 K	Same as above.	.12½
Dura Flash							
SM Instant Flash	3	5,000	7	5-F	3300 K	Gas-filled. Bayonet base. Battery use only. Provides quick-freeze flash.	.14
Duramite	3 to 45	7,000	10	20-M	3800 K	Ultra-midget size bulb for all purpose use. Helps prevent over-exposure with simple type cameras. Bayonet base.	.12½
No. 5 Press Flash	3	16,000	13	20-M	3800 K	Bayonet base. All purpose lamp. Battery use only.	.13
No. 5A Press Flash	3	11,000	13	20-M	3200 K	Same as above, but coated amber for use with tungsten type color film.	.17
No. 5B Press Flash	3	7,000	13	20-M	6000 K	Same as No. 5 but coated blue for use with daylight type color film.	.17
No. 5R Infrared	3	.....	13	20-M	Infrared	Bayonet base, midget. Special infrared coating which absorbs the blue and red visible light allowing only infrared radiation. Used with infrared film without filters.	.22
No. 6 Focal Plane	3	12,000	30	FP	3800 K	Bayonet base, midget size, for use with smaller cameras having focal plane shutters.	.15
No. 6A Focal Plane	3	8,000	30	FP	3200 K	Same as above but coated amber for use with tungsten type color film.	.19
No. 6B Focal Plane	3	5,000	30	FP	6000 K	Same as No. 6 but coated blue for use with daylight type color film.	.19
No. 11 Press Flash	3	28,000	12	20-M	3800 K	Medium base all-purpose lamp for accurate synchronization.	.15
No. 11A Press Flash	3	23,000	12	20-M	3200 K	Same as above but coated amber for use with tungsten color film.	.19
No. 11B Press Flash	3	14,000	12	20-M	6000 K	Same as No. 11 but coated blue for use with daylight type color film.	.19
No. 11R Infrared	3	.....	12	20-M	Infrared	Medium base similar to No. 11 specially coated for infrared radiation.	.30
No. 22 Press Flash	3 to 125	65,000	14	20-M	3800 K	Medium base all-purpose lamp similar to No. 11 but greater power.	.17
No. 22A Press Flash	3 to 125	60,000	14	20-M	3200 K	Same as above, but coated amber for use with tungsten type color film.	.23
No. 22B Press Flash	3 to 125	28,000	14	20-M	6000 K	Same as No. 22 but coated blue for use with daylight type color film.	.23
No. 22R Infrared	3 to 125	.....	14	20-M	Infrared	Medium base similar to No. 22 Power, specially coated for infrared radiation.	.34
No. 31 Focal Plane	3	77,000	53	FP	3800 K	Powerful medium base lamp for high shutter speed synchronization, or for use with focal plane shutters.	.24
No. 50 Pro-Flash	3 to 125	94,000	17	30-S	3800 K	Powerful medium base lamp for ballroom and industrial photography.	.22
No. 50A Pro-Flash	3 to 125	89,000	17	30-S	3200 K	Same as above but coated with amber for use with tungsten type color film.	.28
No. 50B Pro-Flash	3 to 125	43,000	17	30-S	6000 K	Same as No. 50 but coated with blue for use with daylight type color film.	.28
General Electric Photoflash Lamps							
Speed Midget "SM"	3	4,700	7	6-F	3300 K	Quick flash for all-around near-distance pictures in proper reflectors. Bayonet base. Battery use only.	.14
Synchro-Press No. 5	3	16,000	13	21-M	3800 K	For all-around pictures in proper reflectors. Ideal for between-the-lens shutters. Bayonet base.	.13
Synchro-Press No. 5B	3	7,000	13	21-M	6000 K	Same as No. 5 with blue-filter coating for correct color rendition with daylight-type color film.	.17
Focal Plane No. 6	3	15,500	30	FP	3800 K	For synchronization with most focal-plane shutters. Midget size, bayonet base. Battery use only.	.15
Synchro-Press No. 11	3	29,000	12	21-M	3800 K	General purpose lamp for accurate synchronization and open flash; for press and amateur use.	.15
Synchro-Press No. 22B	3 to 125	27,000	14	21-M	6000 K	Same as No. 22 with blue coating for use with daylight-type color film and fill-in for daylight color shots.	.23
Synchro-Press No. 22	3 to 125	63,000	14	21-M	3800 K	General purpose of greater power than No. 11. Medium-broad peak allows for errors in synch.; for high-speed shots.	.17
Focal Plane No. 31	3	77,000	53	FP	3800 K	For high shutter speed synch.; with focal-plane shutters. Longer duration than No. 6. Battery flashing only.	.24
Photoflash No. 50	3 to 125	95,000	17	30-S	3800 K	Great light intensity to cover large areas and for exposure at small lens aperture.	.22
Photoflash No. 50B	3 to 125	43,000	17	30-S	6000 K	Same as No. 50, but with blue coating for use with daylight color emulsions.	.28
Solar Electric Photoflash Lamps							
SM	3	5,000	7	5-F	3300 K	Gas-filled speed midget. Bayonet base. Battery use only. Provides quick-freeze flash.	.14
No. 5	3	16,000	13	20-F	3800 K	Precise, uniform flash makes it ideal for use with between-the-lens shutters.	.13
No. 5B	3	7,000	13	20-F	6000 K	Same as above, but coated blue for use with Daylight Type color film.	.17
No. 11	3	28,000	12	20-F	3800 K	Accurately timed peak intensity. General all-purpose flash lamp. Long flash duration.	.15
No. 22	3 to 125	62,000	14	20-F	3800 K	Powerful flash lamp designed for use where maximum coverage is required. High peak intensity.	.17
No. 22B	3 to 125	27,000	14	20-F	6000 K	Same as above, but coated blue for use with Daylight Type color film.	.23

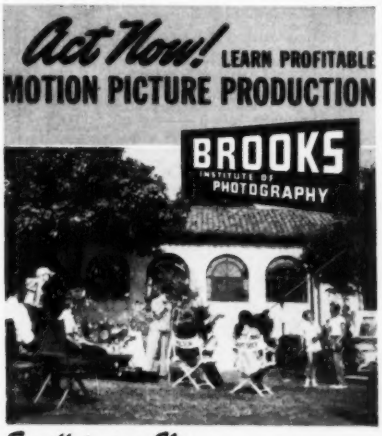
* In the interest of safety, bulbs designed for firing with 3 to 9 volts should not be ignited with regular house current.

† Lumen second values for all G-E bulbs are determined in accordance with a new method established by ASA and differ from previously published ratings. There is no change in lamps or light output.

** Approximate time to peak in milliseconds for designated classes of lamps are: Class F—5 milliseconds, Class M—20 milliseconds, Class S—30 or more milliseconds, Class FP—for focal-plane shutters, long, level peak.

Manufacturers' and distributors' addresses begin on page 194

Bulb Designation	Voltage Required to Fire Bulb*	Light Output in Lumen Seconds†	Duration At ½ Peak in Milliseconds (Approx.)	Time to Peak in Milliseconds (Approx.) And Class**	Mean Color Temp. Degrees Kelvin (Approx.)	Special Characteristics, Uses, Etc.	Price Each (Less Tax)
Sylvania Superflash							
Bantam 8	3 to 45	7,000	10	20-M	3800 K	New small bulb about ½ size of Press 25. Features unique package permitting purchase of 12, 8 or 4. Battery use only.	.125
No. 25C	3 to 45	14,000	14	20-M	3400 K	New colorite bulb for use with indoor color film without filters. Bayonet base; for use with battery only.	.17
No. FP-26B	3 to 45	7,500	24	FP	6000 K	New midget for focal plane cameras only. Eliminates need of filters with outdoor color film. Bayonet base.	.19
SF (Speed Flash)	3 to 9	5,000	5	6-F	3300 K	Quick-freeze flash equivalent to 1/100 sec. shutter speed even with open flash. Gas filled; bayonet base. Battery use only.	.14
Press 25	3 to 9	20,000	14	20-M	3800 K	Midget lamp for synchronization with between-the-lens shutters; bayonet base. Battery use only.	.13
No. FP-26	3 to 9	15,000	24	FP	3800 K	For focal-plane shutters only; for use with cameras up to 2¼x 3¼. Bayonet base. Use in midget-lamp reflector. Battery use only.	.15
No. 0	3 to 9	20,000	14	20-M	3800 K	Baby size flash, medium base, for general amateur use; wide-peak flash for synchronized use. Battery use only.	.15
Press 40	3 to 9	30,000	17	20-M	3800 K	For press use; long peak for high-speed synchronization; can be used with many focal-plane minicameras. Battery use only.	.15
No. 2	3 to 125	62,000	18	20-M	3800 K	High-powered lamp recommended for synch. with all compur or between-the-lens shutters, some focal-plane.	.17
No. 2A	3 to 9	77,000	64	FP	3800 K	For focal-plane shutters only; for synch. up to 1/1000 sec. Battery use only. Two lamps in twin package.	.24
No. 3	3 to 125	110,000	18	30-S	3800 K	Powerful lamp for covering large areas; synch. recommended at speeds up to 1/100 second.	.22
No. 25B	3 to 9	8,000	14	20-M	6000 K	Blue midget for use with daylight-type color films. Bayonet base; for use with battery only.	.17
No. 40B	3 to 9	14,000	17	20-M	6000 K	Same as Press 40. Designed for use with daylight-type color films. Battery use only.	.19
No. 2B	3 to 125	28,000	18	20-M	6000 K	Same bulb size as No. 2, for use with daylight-type color films. Packed two to twin wrapper. Blue lamp.	.23



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PHOTOGRAPHIC LENSES

All lenses listed have iris diaphragm unless otherwise specified.

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
Angenieux Dist.—Florman & Babb					
Retrofocus R-3	9.5 mm	f/2.2	f/22	Extreme wide-angle lens, screw mount.	$175.00
	18.5 mm	f/2.2	f/22	Same as above.	295.00
Arco Imp.—Photographic Importing and Distributing Corp.					
Tele-Colinar	135 mm	f/3.8		Rangefinder coupled to Leica.	66.95
	135 mm	f/3.5		Preset diaphragm for Kine Exakta, Praktica, Praktiflex, Contax S, DA.	84.95
Astro Dist.—Sterling Howard					
Astro Gauss-Tachar	25 mm	f/2	f/22	For Eyemo, Mitchell, Arriflex and similar mounts.	
	32 mm	f/2	f/22	Same as above.	
	40 mm	f/2	f/22	Same as above.	
	50 mm	f/2	f/22	Same as above.	Upon request.
	75 mm	f/2	f/22	Same as above.	
	100 mm	f/2	f/22	Same as above.	
Astro Fernbildlinse	300 mm	f/5	f/22	For all Kine-Exakta models.	129.50
	300 mm	f/5	f/22	For Contaxes.	142.00
Astro-Berlin	400 mm	f/5	f/22	Telephoto lens for Kine Exakta and 35-mm cameras with Leica and Contax mounts; coated; built-in sunshade; uses reflex focusing Identoscope for Leica and Kardon, price $289.50; for Kine Exakta.	189.50
Astro Dist.—Ercona Camera Co.					
Pantachar	125 mm	f/2.3		Super-speed for Contax-S, Exakta, Praktika, Primar, Reflex, Master Reflex, Hasselblad, and 16, 35-mm, cine cameras.	195.00
	150 mm	f/2.3		Same as above, but including Leica equipped with Identoscope, $150 extra.	275.00
	150 mm	f/1.8		As above.	345.00
Fernbild	300 mm	f/5		As above, but excluding Primar Reflex, Master Reflex and Hasselblad.	195.00
	400 mm	f/5		As above, but including Primar Reflex, Master Reflex and Hasselblad.	245.00
	500 mm	f/5		As above.	395.00
	640 mm	f/5		As above.	725.00
	800 mm	f/5		As above.	895.00
	1000 mm	f/6.3		As above. (Note: All lenses for Hasselblad, $25 extra. All Leica mounts include Identoscope, reflex housing, at $150 extra.)	1100.00
Bausch & Lomb					
Professional Enlarging Lenses	4½"	f/4.5	f/32	Barrel mount; coated; covers 2½x3½ film; with iris diaphragm.	69.13 Inc. F.E.T.
	7½"	f/4.5	f/32	Same as above; covers 5x7 film.	103.00
	8½"	f/4.5	f/32	Same as above; covers 5x8 film.	115.00
	12"	f/4.5	f/32	Same as above; covers 8x10 film.	250.00
Professional Enlarging Lenses IC	7½"	f/4.5	f/32	Still camera; enlarging; in Betax Shutter without release; 4 elements. Coated. Covers 5x7 film.	108.00
	12"	f/4.5	f/45	Same as above; covers 8x10 film.	262.00
Professional Enlarging Lens IIb		f/6.3	f/45	Barrel mount; coated; covers 8x10.	149.00
Extreme Wide Angle Protar V	7¼"	f/18	f/45	Still camera; barrel mount; coated; covers 8x10.	110.00
	7¼"	f/18	f/45	Same as above; in shutter; covers 8x10 film.	125.00
Animar (for 8-mm cameras)	12.7 mm	f/2.8		For 8-mm movie cameras, fixed focus.	25.20 Inc. F.E.T.
	7.5 mm	f/2.5		Same as above.	56.00 Inc. F.E.T.
	14 mm	f/1.9		Same as above, focusing mount.	72.80 Inc. F.E.T.
	15 mm	f/1.5		Same as above.	128.80 Inc. F.E.T.
Animar Telephoto	25 mm	f/2.7		Same as above.	58.25 Inc. F.E.T.
	37.5 mm	f/3.5		Same as above.	55.00
Animar (for 16-mm cameras)	25 mm	f/2.7		For 16-mm movie cameras; fixed focus.	31.90 Inc. F.E.T.
	26 mm	f/1.9		Same as above; "C" focusing mount.	84.00 Inc. F.E.T.
	25 mm	f/1.5		Same as above.	179.20 Inc. F.E.T.
Animar Telephoto	50 mm	f/3.5		Same as above.	55.00
	75 mm	f/3.5		Same as above.	80.00
	100 mm	f/3.5		Same as above.	90.00
Baltar (for 16-mm cameras)	15 mm	f/2.3		Barrel mount; coated.	173.60 Inc. F.E.T.
	17.5 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	20 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	25 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	35 mm	f/2.3		Same as above.	158.00
Baltar (for 35-mm cameras)	25 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	30 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	35 mm	f/2.3		Same as above.	158.00
	40 mm	f/2.3		Same as above.	160.00
	50 mm	f/2.3		Same as above.	164.00
	75 mm	f/2.3		Same as above.	185.00
	100 mm	f/2.3		Same as above.	225.00
	152 mm	f/2.7		Same as above.	255.00
Bell & Howell					
B. & H.	6.5 mm	f/1.9	f/22	Wide-angle lens for Bell & Howell 8-mm movie cameras. Coated; 8 element inverted telephoto; highly corrected for color, astigmatism, spherical aberration, coma and distortion; fixed focus; click stops.	79.95 Inc. F.E.T.
Comat	0.5"	f/2.5	f/22	For Bell & Howell 8-mm movie cameras. Coated; triplet anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; fixed focus.	56.95 Inc. F.E.T.
Super Comat	0.5"	f/1.9	f/22	For Bell & Howell 8-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	86.95 Inc. F.E.T.
	1"	f/1.9	f/22	For Bell & Howell 8-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount, click stops; rotating back thread to adjust index line.	86.95 Inc. F.E.T.
	1"	T2.1	f/22	Same as above.	86.95 Inc. F.E.T.
Telate	1.5"	f/3.5	f/22	For Bell & Howell 8-mm movie cameras. Coated; triplet anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	53.00 Inc. F.E.T.
	2"	f/3.5	f/32	For Bell & Howell 8-mm movie cameras. Coated; triplet anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	64.95
Comat	1"	f/2.5	f/32	For 16-mm movie cameras. Coated; triplet anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; fixed focus; click stops; rotating back thread to adjust index line.	62.95 Inc. F.E.T.
Super Comat	0.7"	f/2.5	f/22	Wide-angle lens for 16-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	86.95 Inc. F.E.T.
	0.7"	T2.7	f/22	Same as above.	86.95 Inc. F.E.T.
	1"	f/1.9	f/22	For 16-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount, click stops; rotating back thread to adjust index line.	86.95 Inc. F.E.T.
	1"	T2.1	f/22	Same as above.	86.95 Inc. F.E.T.
Telate	2"	f/3.5	f/22	For 16-mm movie cameras. Coated; triplet anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	64.95
	3"	f/4	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount; click stops.	79.95
	3"	T4.4	f/32	Same as above.	79.95
	4"	f/4.5	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount; click stops.	84.95
	4"	T4.8	f/32	Same as above.	84.95
	6"	f/4.5	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	112.50
Taylor-Hobson Dist.—Bell & Howell					
Ivotal	0.5"	f/1.4	f/16	For Bell & Howell 8-mm movie cameras. Coated; 5 element inverted telephoto; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount, depth of field scale; click stop iris.	141.95 Inc. F.E.T.
Super Comat	1.5"	f/1.9	f/22	For Bell & Howell 8-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount; click stops.	69.95 Inc. F.E.T.
Ivotal	1"	f/1.4	f/22	For 16-mm movie cameras. Coated; 6 element anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	175.95 Inc. F.E.T.
	1"	T1.5	f/22	Same as above.	175.95 Inc. F.E.T.
	2"	f/1.4	f/22	For 16-mm movie cameras. Coated; Cooke 4 element anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	164.95
	2"	f/1.6	f/22	Same as above.	164.95
Kinic	2"	f/3.5	f/32	For 16-mm movie cameras. Coated; triplet anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	72.95
Kinic	2"	f/3.5	f/32	For Bell & Howell 8-mm movie cameras. Coated; triple anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	72.95
Telekinic	6"	f/4.5	f/32	For 16-mm movie cameras. Coated; 4-element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	159.95
Panchrotal	2.8"	T2.5	f/32	For 16-mm movie cameras. Coated; Cooke 6 element telephoto anastigmat; extremely highly corrected for color, astigmatism, spherical	

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
				aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	65.95
	4"	T2.5	f/32	For 16-mm movie cameras. Coated; Cooke 6 element telephoto anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	189.95
Taylor-Hobson-Cooke Dist.—Burke & James, Inc.					
Taylor-Hobson-Cooke	2" to 48"	f/.8 to f/16		Complete line of still camera lenses in focal lengths from 2" to 48".	Upon request
Canon Dist.—Balfour, Guthrie & Co.					
Anastigmat	50 mm	f/3.5	f/22	Normal lens for 35-mm cameras.	92.00
	50 mm	f/1.8	f/16	Same as above.	184.50
	50 mm	f/1.5	f/16	Same as above.	214.65
	28 mm	f/3.5	f/22	Extreme wide-angle lens, 75 degrees.	177.85
	35 mm	f/2.8	f/22	Wide-angle lens, 64 degrees.	145.25
	35 mm	f/3.2	f/22	Same as above.	125.65
	85 mm	f/1.9	f/16	Medium telephoto lens.	195.15
	85 mm	f/1.5	f/16	Same as above.	328.30
	85 mm	f/2	f/16	Same as above.	187.00
	100 mm	f/4	f/22	Telephoto lens.	108.00
	135 mm	f/4	f/16	Same as above.	122.25
	135 mm	f/3.5	f/16	Same as above.	150.40
Century Dist.—Century Photo Supply					
Athenar	6"	f/2.8	f/22	For 16-mm motion picture cameras; color corrected; focusing "C" mount or mounted to order.	69.50
Tele-Athenar	9"	f/4.5		For 16-mm cameras. Coated, color corrected. Nine power. In focusing "C" mount or mounted to order.	69.50
Super-Athenar	15"	f/4.5		Powerful telephoto for 16-mm cameras. In focusing "C" mount or mounted to order. Coated and color corrected. Built-in viewing.	119.50
Super-Athenar	15"	f/6.8		Powerful telephoto lens for 16-mm cameras. Coated, color corrected. In focusing "C" mount or mounted to order. Fifteen power.	79.50
Kinetar	8¼"	f/4.5		Powerful telephoto lens for Kine Exacta or Praktica. Highly corrected for color. Coated. In focusing mount.	69.50
Dallmeyer Dist.—Alco Photo Supply					
Adon Telephoto	6"	f/4.5		Fixed separation; magnification approx. 2x linear; camera extension necessary for objects at infinity is approx. half the equivalent focal length of lens; black enamel mount finish.	Upon request
	9"	f/4.5		Same as above.	Upon request
	10"	f/4.5		Same as above.	
	12"	f/4.5		Same as above.	
	14"	f/4.5		Same as above.	
Dallon Telephoto	4"	f/5.6		Same as above.	Upon request
	6"	f/5.6		Same as above.	
	9"	f/5.6		Same as above.	
	11"	f/5.6		Same as above.	
	14"	f/5.6		Same as above.	
Cine Lenses (for 8-mm cameras)	13 mm	f/1.9		Available in different mounts to fit all 8-mm cameras with interchangeable lenses; coated. Prices are higher for B&H Companion and Filmo Sportster to cover needed Wedge Mount.	73.13
	15 mm	f/1.5		Same as above.	99.00
	15 mm	f/2.9		Same as above.	73.13
	20 mm	f/1.5		Same as above.	99.00
	20 mm	f/2.9		Same as above.	73.13
	25 mm	f/1.5		Same as above.	99.00
	25 mm	f/1.9		Same as above.	64.13
	25 mm	f/2.9		Same as above.	67.50
	1½"	f/1.9		Same as above.	Upon request
	1½"	f/2.9		Same as above.	
	2"	f/1.5		Same as above.	
	2"	f/1.9		Same as above.	
	2"	f/2.9		Same as above.	
	3"	f/2.9		Same as above.	
	3"	f/3.5		Same as above.	
	3"	f/4		Same as above.	
Cine Lenses (for 16-mm cameras)	15 mm	f/1.5		Designed for B&H, Keystone, Revere, Victor, Bolex, Pathe, and Cinklox 16-mm cameras.	99.00
	20 mm	f/1.5		Same as above.	99.00
	1"	f/1.5		Same as above.	99.00
	1½"	f/1.9		Same as above.	Upon request
	1½"	f/2.9		Same as above.	
	2"	f/1.5		Same as above.	
	2"	f/1.9		Same as above.	
	2"	f/2.9		Same as above.	Upon request
	3"	f/1.5		Same as above.	
	3"	f/1.9		Same as above.	
	3"	f/2.9		Same as above.	
	3"	f/3.5		Same as above.	
	3"	f/4		Same as above.	
	4"	f/3.5		Same as above.	
	4"	f/4.5		Same as above.	
	6"	f/3.5		Same as above.	
	6"	f/4.5		Same as above.	
De Jur-Amsco					
DeJur Wollensak	6.5 mm	f/1.9	f/22	For 8-mm cameras; coated; in chrome mount; fixed focus.	70.00 Inc. F.E.T.
	6.5 mm	f/2.5	f/22	Same as above, fixed focus.	44.24
	9 mm	f/2.5	f/22	Same as above.	46.20 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above.	27.72 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above, in focusing mount.	48.98 Inc. F.E.T.
	25 mm	f/2.5	f/16	Same as above, in focusing mount.	46.20 Inc. F.E.T.
	38 mm	f/3.5	f/22	Same as above, in focusing mount.	41.25
	38 mm	f/3.5	f/22	Same as above, but fixed focus.	24.75
	38 mm	f/2.5	f/22	Same as above, but in focusing mount.	57.75
	38 mm	f/1.5	f/22	Same as above, but in focusing mount.	67.50
Eastman					
Kodak Ektar	101 mm	f/4.5	f/32	Color-corrected; 4-element with rear pair cemented; coated; covers 2¼x3¼; in Kodak Rapid Synchro 800 Shutter.	76.80
	105 mm	f/3.7	f/32	As above; 5-element with 2 cemented pairs; in No. 2 Flash Supermatic Shutter.	83.80
	127 mm	f/4.7	f/32	Same as 101 mm; covers 3¼x4¼; in Flash Supermatic Shutter.	67.55
	127 mm	f/4.7	f/32	Same as above; in Supermatic-X Shutter.	58.55
	152 mm	f/4.5	f/45	Same as above; in No. 3 Flash Supermatic Shutter; covers 4x5.	89.15
	7½"	f/4.5	f/45	Same as above; in Ilex Acme Synchro Shutter; covers 5x7.	170.00
	7½"	f/4.5	f/45	Same as above; in Ilex Universal Shutter.	133.75
Kodak Ektar	7½"	f/4.5	f/45	Same as above; in barrel with iris diaphragm.	107.10
	8"	f/7.7	f/45	Color-corrected; 4-element air spaced; coated; covers 5x7, in Flash Supermatic Shutter.	72.70
	12"	f/4.5	f/32	Color-corrected; 4-element with rear pair cemented; coated; covers 8x10, in Ilex Universal Synchro Shutter.	266.35
Kodak Commercial Ektar	8½"	f/6.3	f/45	Designed for color work as well as black-and-white; well suited for portrait and exacting commercial work; 4 elements; rear pair cemented; coated; barrel mount; covers 5x7; click stops.	109.70
	8½"	f/6.3	f/45	Same as above; in No. 3 Ilex Acme Synchro Shutter.	165.00
	10"	f/6.3	f/45	Same as above; in barrel mount; covers 6½x8½.	150.00
	10"	f/6.3	f/45	Same as above; in No. 4 Ilex Acme Synchro Shutter.	210.00
	12"	f/6.3	f/45	Same as above; in barrel mount; covers 8x10.	184.25
	12"	f/6.3	f/45	Same as above; in No. 4 Ilex Acme Synchro Shutter.	250.00
	14"	f/6.3	f/45	Same as above; in barrel mount; covers 8x10.	214.25
	14"	f/6.3	f/45	Same as above; in No. 5 Ilex Universal Synchro Shutter.	280.10
Kodak Wide Field Ektar	80 mm	f/6.3	f/32	Corrected for color; 4 elements; air spaced; coated; maintains high degree of perfection at unit magnification; focus does not change at various stops; screw-in filter retaining rings; Kodak Flash Supermatic Shutter; covers 2¼x3¼ at f/6.3 with 75° field; 3¼x4¼ at f/16 with 80° field.	117.60
	100 mm	f/6.3	f/32	Same as above; covers 3¼x4¼ at f/6.3 with 75° field; 4x5 at f/16 with 80° field.	122.65
	135 mm	f/6.3	f/32	Same as above; covers 4x5 at f/6.3 with 75° field; 5x7 at f/16 with 80° field.	132.00
	190 mm	f/6.3	f/45	Same as above; No. 4 Ilex Acme Synchro Shutter; covers 5x7 at f/6.3 with 75° field; 8x10 at f/16 with 80° field.	199.15
	250 mm	f/6.3	f/45	Same as above; No. 5 Ilex Universal Synchro Shutter; covers 8x10 at f/6.3 with 75° field; 11x14 at f/16 with 80° field.	232.10
Kodak Cine Ektar	15 mm	f/2.5		Fully color corrected; coated; depth of field scale; wide angle for 16-mm movie cameras.	78.25
	25 mm	f/1.9		Fully color corrected; coated; depth of field scale; for 8 and 16-mm movie cameras.	97.10
	25 mm	f/1.4		Fully color corrected; coated; depth of field scale; for 8 and 16-mm movie cameras.	194.25
	40 mm	f/1.6		Same as above.	114.40
	63 mm	f/2.9		Same as above.	115.40
	102 mm	f/2.7		Same as above for 16-mm movie cameras.	124.30
	152 mm	f/4.0		Same as above.	146.69
Kodak Cine Ektanon	9 mm	f/2.7		Coated; wide angle for Cine Kodak Magazine 8 camera.	50.00
	13 mm	f/1.9		Coated; for 8-mm movie cameras with standard 8-mm screw mount.	42.95
	15 mm	f/2.7		Coated; wide angle for 16-mm movie cameras.	59.00
	25 mm	f/1.9		Coated; for 16-mm movie cameras with standard Type C threaded lens mount.	62.40
	38 mm	f/4.5		For Cine Kodak Eight Model 60 camera.	42.85
	38 mm	f/2.8		Coated; for 8-mm movie cameras with standard 8-mm screw mounts.	39.00
	38 mm	f/2.5		Coated; for Cine Kodak Magazine 8 camera.	50.40
	50 mm	f/1.6		Coated; for 8 and 16-mm movie cameras.	84.20
	63 mm	f/2.7		Same as above.	67.55
	102 mm	f/2.7		Coated; for 16-mm movie cameras.	75.25
	152 mm	f/4.5		Same as above.	55.00
Kodak Enlarging Ektar Lenses	2"	f/4.5	f/22	Color corrected; click stops; coated; in 2⅝x2⅝ metal lensboard, for negatives to 1⅝x1⅝.	44.30
	3"	f/4.5	f/22	Same as above; for negatives to 2¼x2¼.	46.80
	4"	f/4.5	f/22	Same as above; for negatives to 2¼x3¼.	49.90
Kodak Enlarging Ektanon	50 mm	f/4.5	f/22	High quality; designed largely for black-and-white; coated; click stops; in 2⅝x2⅝ plastic lensboard.	14.00
	3"	f/4.5	f/22	Same as above; for negatives to 2¼x2¼, in metal board.	22.95
	4"	f/4.5	f/22	Same as above; for negatives to 2¼x3¼.	29.20
	5⅛"	f/4.5	f/22	Same as above; for negatives to 3¼x4¼.	44.50
	6½"	f/4.5	f/22	Same as above; for negatives to 4x5.	49.00
	7½"	f/4.5	f/32	Same as above; click stops; also recommended for color enlarging; for negatives to 5x7, in barrel mounting.	83.30
	10"	f/4.5	f/32	Same as above; for negatives to 8x10.	139.50
	10"	f/8	f/45	Same as above; especially recommended where maximum definition is required.	127.45
Elgeet					
Standard Cine (for 8-mm)	½"	f/1.9	f/22	Fixed focus mount; standard 8-mm "D" thread; coated; click stops; depth of field scale; chrome finish.	32.45 Inc. F.E.T.
	½"	f/1.9	f/22	Focusing mount to 1.5 feet; standard 8-mm "D" thread; coated; click stops; chrome finish; filter retainer.	43.60 Inc. F.E.T.

Manufacturers' and distributors' addresses begin on page 194

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
Cine-Tel (for 8-mm)	½"	f/2.5	f/22	Fixed focus mount; standard 8-mm "D" thread; coated; click stops; chrome.	19.80
	1"	f/1.9	f/22	Focusing mount to 2 feet; 2x linear magnification; coated; click stops; depth of field scale; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8.	Inc. F.E.T. 58.35
	1½"	f/1.5	f/16	Focusing mount to 2 feet; 3x linear magnification; coated; click stops; depth of field scale; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8.	Inc. F.E.T. 68.35
	1½"	f/1.5	f/16	Same as above, but with Kodak Magazine mount.	68.35
	1½"	f/2.5	f/16	Focusing mount to 2.5 feet; 3x linear magnification; standard 8-mm "D" thread; coated; chrome finish; filter retainer.	46.95
	1½"	f/2.5	f/16	Same as above, but with Bell & Howell Auto-8 thread.	46.95
	1½"	f/3.3	f/16	Focusing mount to 4 feet; 3x linear magnification; coated; click stops; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8.	41.75
	1½"	f/3.5	f/16	Fixed focus mount; 3x linear magnification; standard 8-mm "D" thread; coated; click stops; depth of field scale; chrome finish; filter retainer.	25.75
	3"	f/2.9	f/22	Focusing mount to 3 feet; 6x linear magnification; coated; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8 focusing to 3.5 feet.	63.45
Wide Angle (for 8-mm)	6.5 mm	f/2.5	f/16	Fixed focus; supplied in standard "D" mount thread; B&H mounting; and Kodak mounting; covers 4x area of standard ½" lens; filter retaining ring supplied; chrome finish.	41.50
	7 mm	f/1.9	f/22	Fixed focus; supplied for cameras with "D" mount thread; B&H camera models 172-A, 172-B and 134-V, and Kodak Magazine model 90; click stops; depth of focus scale; chrome finish; filter retaining ring; covers 4x area of standard ½" lens.	63.20
	7.5 mm	f/1.5	f/22	Focusing mount to 1.5 feet; covers 3½x area of standard ½" lens; coated; chrome finish; filter retaining ring; standard "D" mount thread or for B&H cameras models 172-A, 172-B and Sportster model 134-V.	Inc. F.E.T. 77.85
Standard Cine (for 16-mm)	1"	f/1.9	f/22	Focusing mount to 2 feet; standard 16-mm "C" thread; coated; click stops; depth of field scale; chrome finish; filter retainer.	58.35
Cine-Tel (for 16-mm)	31 mm	f/3.5	f/16	Fixed focus; 2x magnification; chrome finish; standard 16-mm "C" mount thread.	Inc. F.E.T. 36.40
	3"	f/2.9	f/22	Focusing mount to 3 feet; 3x linear magnification; coated; chrome finish; filter retainer; standard 16-mm "C" thread or Kodak Magazine mount.	63.45
	4"	f/2.7	f/22	Focusing mount to 2.5 feet; 4x linear magnification; coated; depth of field scale; chrome finish; filter retainer; standard 16-mm "C" thread or Kodak Magazine mount.	88.95
Wide Angle (for 16-mm)	13 mm	f/1.5	f/16	Focusing mount to 1 foot; covers 4x the area of the standard 1" lens; coated; click stops; depth of field scale; chrome finish; filter retainer; standard 16-mm "C" thread or Kodak Magazine mount.	95.70
Telephoto (for 35-mm)	4"	f/4.5	f/22	For all models Kine Exacta; 2x linear magnification; light weight aluminum mounting; focusing mount to 6 feet; coated; filter retainer.	Inc. F.E.T. 51.15
	4"	f/4.5	f/22	For Praktiflex, Praktica, Clarus, Exacta, Mercury, Rectaflex, all models, same as above.	51.15
Coloratigmat (Enlarging lens)	2"	f/4.5	f/22	Fully color corrected; coated; click stops; chrome finish; with flange.	Inc. F.E.T. $18.45
	3½"	f/4.5	f/22	Same as above.	26.55
	4½"	f/4.5	f/22	Same as above.	32.80
	5"	f/5.6	f/22	Same as above.	32.80
	5½"	f/4.5	f/22	Same as above.	39.20
	6½"	f/4.5	f/22	Same as above.	56.75
	10"	f/4.5	f/32	Same as above.	135.50
Eltar Dist.—Interstate Photo Supply Corp.					
Eltar Telephoto (for 8- and 16-mm)	1"	f/3.5	f/16	Anastigmat coated, color corrected for 8-mm cameras, fixed focus, chrome on brass mount, including FET.	9.95
	1½"	f/3.2	f/16	Same as above.	12.95
	1½"	f/3.2	f/16	Same as above, but in focusing mount.	17.95
	1½"	f/2.5	f/16	Same as above.	26.95
	1½"	f/1.9	f/16	Same as above, but with click stops and depth of field scale.	38.95
	1½"	f/1.5	f/16	Same as above.	42.50
	3"	f/2.5	f/16	For 16-mm cameras in C mount, click stops, depth of field scale, filter holding sunshade, lightweight mount.	42.50
Eltar wide angle (for 8- and 16-mm)	7 mm	f/2.5	f/16	For 8-mm cameras, coated, color corrected, fixed focus mount.	29.95
	6 mm	f/1.9	f/16	Same as above.	39.95
	17 mm	f/2.7	f/22	Wide angle in "C" mount for 16-mm cameras focusing from 10" to infinity, coated, color corrected in chrome polished brass mount.	34.95
Eltar Anastigmat	6 mm	f/1.9	f/16	Fixed focus, click stops, filter ring.	39.95
	7 mm	f/2.5	f/16	Same as above.	29.95
	1"	f/3.5	f/16	Fixed focus.	9.95
	1½"	f/3.2	f/16	Fixed focus.	12.95
	1½"	f/3.2	f/16	Focusing mount.	16.95
	1½"	f/2.5	f/16	Focusing mount.	26.95
	1½"	f/1.9	f/16	Focusing mount, click stops, filter ring.	38.95
	1½"	f/1.5	f/16	Same as above.	42.50
	3"	f/2.5		Click stops, filter retainer, light weight mount.	42.50
	17 mm	f/2.7		Click stops.	34.95
Dist.—Photographic Importing & Distributing Co.					
Eltar Wide Angle	6 mm	f/1.9	f/22	For 8-mm cameras; anastigmat; fixed focus; click stops.	39.95
Eltar Telephoto (for 8-mm)	1"	f/3.5	f/16	For 8-mm cameras; fixed focus; chrome on brass.	9.95 Inc. F.E.T.
	1½"	f/3.2	f/16	Same as above.	12.95
	1½"	f/3.2	f/16	Same as above but in focusing mount.	17.95
	1½"	f/2.5	f/16	Same as above.	26.95
	1½"	f/1.9	f/16	Same as above but with click stops, depth of field scale.	38.95
	1½"	f/1.5	f/16	Same as above.	42.50
	3"	f/2.5	f/16	Same as above.	39.95
Goerz					
Apochromat Artar, Anastigmat	4"	f/9		Four elements, in two uncemented pairs; for color separation, black-and-white reproduction, outdoor scenes, architecture, etc.; listed coverage increases 15% if reversing prism is not used; in iris barrel with slots for stops and filters; covers 4x5 film at 1:1.	85.00
	6"	f/9		Same as above. Covers 6x8 film—This and above lens for color separation blowups from 35-mm (and up) color film.	100.00
	9½"	f/9		Same as above; covers 8x10 film at 1:1.	160.00
	10¾"	f/9		Same as above; covers 9x12 film at 1:1.	165.00
	12"	f/9		Same as above; covers 12x14 film at 1:1.	180.00
	14"	f/9		Same as above; covers 14x17 film; this and all above lenses can be fitted to shutters.	210.00
	16½"	f/9.5		Same as above; covers 16x20 film at 1:1; this and all lenses below can be fitted only in iris barrel with slots.	220.00
	19"	f/11		Same as above covers 18x24 film at 1:1.	235.00
	24"	f/11		Same as above covers 24x28 film at 1:1.	320.00
	30"	f/12.5		Same as above; covers 30x34 film at 1:1.	440.00
	35"	f/12.5		Same as above; covers 36x40 film at 1:1.	621.00
	42"	f/14		Same as above; covers 42x48 film at 1:1.	732.00
	47½"	f/15		Same as above; covers 48x56 film at 1:1.	834.00
	70"	f/16		Same as above; covers 72x80 film at 1:1.	Upon request
Dagor, Anastigmat	40 mm	f/6.8	f/45	Six-element general purpose lens; for use on 35-mm document cameras.	85.00
	60 mm	f/6.8	f/45	Same as above.	85.00
	3½"	f/6.8	f/45	When stopped down acts as wide angle lens with field of 87°; single element at a speed of f/13 may be used alone, with focal length about 1¼ times that of doublet; covers 2x2¼ open and 3¼x4¼ stopped down.	95.00
	4½"	f/6.8	f/45	Same as above; covers 2¼x3¼ negative open, 4x5 stopped down.	100.00
	5"	f/6.8	f/45	Same as above; covers 3¼x4¼ negative open, 5x7 at f/45.	105.00
	6"	f/6.8	f/45	Same as above; covers 4x5 negative open, 6½x8½ stopped down.	110.00
	6½"	f/6.8	f/45	Same as above; covers 3¼x5½ open, 7x9 stopped down.	120.00
	7"	f/6.8	f/45	Same as above; covers 5x7 open, 8x10 stopped down.	135.00
	8¼"	f/6.8	f/45	Same as above; covers 5x8 open, 10x12 stopped down.	150.00
	9½"	f/6.8	f/45	Same as above; covers 6½x8½ open, 11x14 stopped down.	180.00
	10¾"	f/6.8	f/45	Same as above; covers 7x9 open, 12x16 stopped down.	215.00
	12"	f/6.8	f/45	Same as above; covers 8x10 open, 14x17 stopped down.	240.00
	14"	f/7.7	f/45	Covers 10x12 open; 16x20 stopped down.	290.00
	16½"	f/7.7	f/45	Same as above; covers 11x14 open, 20x24 stopped down.	370.00
	19"	f/7.7	f/45	Same as above; covers 14x17 open, 22x26 stopped down.	465.00
Super-Dagor, Wide Angle, Anastigmat	3½"	f/8	f/45	Front or rear combination may be used as a long-focus lens at medium stops; angle of field at smallest stop, 100°; price is for lens in iris barrel; covers 3¼x4¼ to 4x5 negative; requires Rapax No. 2 shutter.	115.00
	4½"	f/8	f/45	Covers 4x5 to 5x7 negative; requires Rapax No. 3 shutter.	135.00
	6½"	f/8	f/45	Covers 5½x7½ to 8x10 negative; requires Rapax No. 3 or Acme No. 3 shutter.	145.00
Dogmar, Anastigmat	3½"	f/4.5	f/32	Four elements, in two uncemented pairs; each pair makes a complete unit which may be used separately; front has a focal length of 1.92 times doublet at speed of f/9; rear has length of 1.52 times the doublet at a speed of f/8; for news cameras and 1-shot color work; covers 1¾x2¼ negative at full aperture.	65.00
	4½"	f/4.5	f/32	Same as above; covers 2x3 negative.	80.00
	5½"	f/4.5	f/32	Same as above; covers 3¼x4¼ negative.	85.00
	6"	f/4.5	f/32	Same as above; covers 3½x4¾ negative.	100.00
	6½"	f/4.5	f/32	Same as above; covers 3¼x5½ negative.	125.00
	7½"	f/4.5	f/32	Same as above; covers 4¼x6¼ negative.	150.00
	8¼"	f/4.5	f/32	Same as above; covers 5x7 negative.	170.00
	9½"	f/4.5	f/32	Same as above; covers 5½x7½ negative.	200.00
	10¾"	f/4.5	f/32	Same as above; covers 6½x8½ negative.	225.00
	12"	f/4.5	f/32	Same as above; covers 7x9 negative.	245.00
Gotar, Anastigmat	8¼"	f/6.8		Four elements, in two uncemented pairs; for black-and-white, process, and copying, or for reproduction of fine detail in flat surface design; in iris barrel, no slot; covers 5x7 film at infinity, 10x12 at 1:1.	145.00
	10"	f/8		Same as above; covers 6½x8½ film.	160.00
	12"	f/8		Same as above; covers 8x10 film.	170.00

Last time at this Low, Low Price

BRAND NEW

THRIFTLITE AC-45

Electronic Flash Unit

List $59.50 **only $29.95**

THRIFTLITE AC-45F

30 Millisecond delay

Suitable for use with cameras with focal plane shutters such as Kine Exakta, Leica, Mercury, etc.

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35mm MERCURY II

- Coated F2.7 lens
- With Eveready Leather Case
- Built-in flash
- Shutter speeds to 1/1000th

Formerly $90

$27.50 (Exc. condition)

FLASH GUN.....$7.30

NEW 2¼x3¼ Roll Film Camera

VOIGTLANDER BESSA I

Reg. $59.50 **$42.50**

- Has coated Vaskar F4.5 lens in Pronto S shutter
- Built-in flash and built-in self timer
- Speeds from 1 second to 1/250th

FLASH GUN.....$5.40

New Low Price! Brand New 35mm Kodak

AUTO RETINA IA

only $67.50

With rapid film advance lever.

with coated SCHNEIDER XENAR F3.5 lens, MX Full Synchro compur rapid shutter, speeds from 1 sec. to 1/500th.

WITH COATED XENAR F2.8 LENS	$77.50
EVEREADY LEATHER CASE EITHER MODEL	7.50

FLASH GUN.....$7.50

USED LENSES AT SENSATIONAL REDUCTIONS

Most are one-of-a-kind. Please indicate 2nd choice

	SALE
50mm Schneider Xenon F2, compur rapid	22.50
90mm Schneider Angulon F6.8, wide angle, compur shutter	24.50
90mm Optar F6.8, wide angle, Graphex shutter	29.50
90mm Raptar Extreme wide angle, F12.5, Rapax Full Synchro	39.50
90mm Wollensak Extreme wide angle, F12.5, Alphax shutter	14.50
101mm Velostigmat F4.5 coated, Alphax shutter	19.50
101mm Velostigmat F4.5, Alphax shutter	12.50
101mm Kodak Ektar F4.5, Supermatic shutter	19.50
103mm Trioptar F4.5 coated, Century Synchro shutter	17.50
105mm Kodak F4.5, compur shutter	17.50
105mm Xenar F4.5, compur shutter	16.50
105mm Radionar F6.3 compur	12.50
105mm B & L F4.5, compur	19.50
120mm Zeiss Tessar F4.5, compur	19.00
115mm Zeiss Tessar F4.5, compur	22.50
120mm Zeiss Tessar F6.3, compur	12.50
125mm Goerz Dagor F6.8, compur	24.50
127mm Velastigmat F4.5, Supermatic	24.50
130mm Zeiss Tessar F6.3, compur	12.50
135mm Optar F4.7 coated, Full Synchro shutter, L.N.	57.50
135mm Solinar F4.5, compur	19.50
135mm Zeiss Tessar F4.5, compur	27.50
135mm Skopar F4.5, compur	19.50
135mm Heliar F4.5, compur	27.50
135mm Eurynar F6.5, compur	12.50
135mm Ilex Paragon F4.5, Acme Synchro	39.50
5½" Bausch & Lomb F4.5 lens in barrel	14.50
6" Zeiss Tessar F4.5, sunk mount	19.50
6½" Kodak F4.5 in barrel	19.50
6¼" (8x10") Velostigmat Extreme W. A., F9.5, Betax	19.50
6" Ross Express F4.5, sunk mount	19.50
7" Zeiss Tessar F4.5, sunk mount	19.50
7" Goerz Celor F4.5 in barrel	14.50
7¼" Kodak F4.5 in barrel	24.50
8" Cooke F4.5 lens in barrel	34.50
8" Raptar F5.6 coated Telephoto in Rapax Shutter, L.N.	69.50
9¼" Bausch & Lomb F4.5 lens in barrel	39.50
12" Wollensak F4.5 lens, Studio shutter	45.00

2 NEW LENSES DRASTICALLY REDUCED

75mm Schneider Tele-Xenar F3.8 coated telephoto, includes mask for Robot cameras. Reg. $110.50	$ 39.50
75mm Voigtlander Color-Scopar F3.5 coated lens in compur shutter, for 2¼x2¼ cameras or enlarging. Reg. $35.00	15.00

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We have a complete line of new and used Kine Exakta cameras and accessories. Drop us a card and tell us what you're after. We'll answer promptly. Highest trade-in allowance.

BIG BARGAINS IN USED CAMERAS

Sold on a First Come basis. All in excellent condition — many like new. Partial listing . . . Write if item you want isn't listed.

REFLEX CAMERAS	List	SALE
Argoflex E, coated F4.5, case L.N.	$ 59.50	$ 27.50
Ciroflex B, F3.5 lens	75.00	29.50
Ciroflex B, coated F3.5 lens, case, L.N.	84.10	39.50
Kodak Reflex I, coated F3.5 lens, Synchro, case, L.N.	137.50	64.50
Kodak Reflex II, coated F3.5 lens, Synchro, case, L.N.	161.00	94.50
Uniflex II, coated F4.5, Synchro, case	84.00	25.00
Kenflex, coated F3.5, Synchro, L.N.	59.00	32.50
Rolleicord II, Triotar F3.5, case	129.50	57.50
Korelle Reflex II, Tessar F2.8, case	175.00	65.00
Standard Rolleiflex, Tessar F3.5, compur, case	195.00	69.50
Auto Rolleiflex, Tessar F3.5 compur, case	225.00	119.50
Zeiss Ikoflex IIA, coated Tessar F3.5, Synchro, case, L.N.	188.00	97.50
Zeiss Ikoflex III, Tessar F2.8, case	250.00	125.00
National Graflex, F3.5 lens, plus 140mm Telephoto	150.00	52.50
Exakta Jr. (1⅝x2¼") F3.5 lens, case	75.00	32.50
Exakta B (1⅝x2¼") Tessar F3.5, case	95.00	47.50
2¼x3¼" RB Graflex, F4.5 lens	110.00	42.50
3¼x4¼" RB Series C Graflex, Cooke F2.5	225.00	79.50
3¼x4¼" RB Auto Graflex, B & L F4.5	195.00	75.00
3¼x4¼" RB Series D Graflex, Zeiss F4.5	175.00	89.50

USED 35mm CAMERAS	List	SALE
Kodak "35", F3.5 lens	$ 42.50	$ 22.50
*Kodak "35", R. F., F3.5 lens	86.75	32.50
*Kodak "35", R. F., coated F3.5, Synchro	86.75	44.50
Kodak Pony 35, coated F4.5 lens L.N.	35.75	22.50
Kodak Bantam, coated F4.5 lens	42.50	24.50
*Kodak Bantam Special, coated Ektar F2	150.00	85.00
*Kodak Signet, coated Ektar F3.5, Synchro L.N.	92.50	64.50
Retina IA, coated Xenar F3.5, "MX" Full Synchro		64.50
*Retina IIB, coated Xenon F2, compur Synchro L.N.	164.00	97.50
*Retina II, Tessar F2.8 compur	110.00	57.50
*Ansco Karomat, coated Xenon F2, "MX" Full Synchro	164.00	89.50
Agfa Karat, F3.5 lens	50.00	12.50
Minox II, coated F3.5 lens L.N.	112.50	64.50
*Dollina II, Xenar F2.8, compur	50.00	29.50
*Bolsey B, coated F3.2 lens	64.50	32.50
Baldinette, coated F3.5, Full Synchro L.N.	49.95	34.50
*Bolsey Reflex (Alpa) F2.9 lens	325.00	79.50
Zeiss Ikonta 35, coated F3.5, Full Synchro L.N.	78.00	49.50
*Buccaneer, coated F3.5 lens L.N.	65.00	27.50
*Perfex DeLuxe, coated F2.8 lens	95.00	29.50
*Argus C2, F3.5 lens L.N.	45.00	22.50
*Argus C3, coated F3.5 lens	62.50	37.50
Contax S, coated Zeiss Biotar F2, Preset L.N.	465.00	185.00
Contax S, coated Zeiss Tessar F3.5 lens	360.00	135.00
Leica C, Hektor F2.5 lens	95.00	42.50
*Leica D, Hektor F2.5 lens	200.00	72.50
*Leica F, Summar F2 lens	250.00	87.50
*Leica G, Summar F2 lens	275.00	119.50
*Leica IIIC, Summitar F2 lens	350.00	179.50
*Contax I, Tessar F3.5 lens	150.00	89.50
*Contax II, Tessar F2.8 lens	225.00	109.50
*Contax III, Sonnar F2 lens	320.00	124.50
*Contax III, coated Sonnar F1.5	365.00	149.50
Contax IIIA, coated Opton F2 L.N.	444.00	249.50
*Contax IIIA, coated Opton F1.5 L.N.	488.00	299.50
Kine Exakta II, coated Zeiss Biotar F2	295.00	159.50

ROLL FILM CAMERAS	WHEN NEW	USED
*Zeiss Super Ikonta A, Tessar F3.5, case	$162.00	$ 59.50
*Zeiss Super Ikonta B, Tessar F2.8, case	195.00	97.50
*Zeiss Super Ikonta BX, Tessar F2.8, case	265.00	139.50
*Zeiss Super Ikonta C, Tessar F3.8, case	165.00	65.00
*Zeiss Super Ikonta C, Tessar F3.5, case	190.00	79.50
*Zeiss Ikonta B, F4.5 lens, Synchro	69.00	25.00
*Kodak Medalist II, coated Ektar F3.5, Synchro, case, L.N.	312.50	159.50
Six 20 Kodak Duo, F3.5, compur, case	65.00	34.50
2¼x2¼ Ansco Speedex, F4.5 lens	42.50	19.50
2¼x2¼ Voigtlander Baby Bessa, F3.5 lens, compur	55.00	25.00
2¼x2¼ Voigtlander Brilliant, F4.5, compur	32.50	15.00
2¼x2¼ Voigtlander Brilliant, F3.5, compur, case	42.50	25.00
2¼x3¼ Voigtlander Bessa, F4.5, Prontor	39.00	19.50
2¼x3¼ Voigtlander Bessa, F3.5, Prontor, Synchro	65.00	29.50
*2¼x3¼ Voigtlander Range Finder Bessa, F3.5, compur, case	110.00	42.50
*2¼x3¼ Voigtlander Range Finder Bessa II, coated Heliar F3.5, Synchro, case, L.N.	178.00	95.00
2¼x3¼ Six 20 Kodak Tourist, coated F4.5, Supermatic Synchro 800 shutter, L.N.	97.00	49.50
2¼x3¼ Bower, X, coated F4.5, Synchro, case, L.N.	44.00	25.00
2¼x3¼ Six 20 Kodak Monitor F4.5 Kodamatic shutter	65.00	25.00
2¼x3¼ Six 20 Kodak Vigilant, coated F4.5, flash Kodamatic, case	60.00	25.00
*2¼x2¼ Baldanette II, F2.9, compur	120.00	59.50
2¼x2¼ Super Sport Dolly, Xenar F2.8, compur	60.00	27.50
2¼x2¼ Polaroid Land Camera, L.N.	89.75	57.50
2¼x4¼ Six 16, Kodak F4.5, compur rapid	75.00	25.00
2¼x4¼ Six 16, Kodak Sr., F6.3 lens	35.00	10.00

*Built in range finder.

SAVE $70—ONLY 4

2¼x2¼

KODAK REFLEX

Twin Lens Camera

with built-in flash synchronization

Was $137.50 only $67.50 (used, but like new)

- Coated Anastar F3.5 lens
- Flash Kodamatic shutter
- Speeds to 1/300
- Includes Leather Eveready Case

SAVE $298.00 on

35mm CONTAX S

2-Lens Outfit—with eye-level focusing prism finder

List $532.50 **SALE $229.50** (Like New)

Includes:

- **58mm coated Zeiss Biotar F2 in Preset Diaphragm mount.**
- **New 90mm Sun F4 coated Telephoto.**

With Eveready Leather case, Self-Timer, built-in flash synchronization, speeds from 1 second to 1/1000th.

BRAND NEW ACCESSORIES FOR PRAKTICA, CONTAX S, D or PENTACON

	SALE
Set of 3 extension tubes, Reg. 15.00	$ 8.95
Microscope adapter, Reg. 19.50	12.50
Bellowscope close up focusing device, Reg. 44.50	24.75
Eye-level Prism finder	16.95
Flash Gun	14.90

Write for listing of lenses at attractive reductions.

SAVE UP TO $90.00 on Brand New

BINOCULARS & FIELD GLASSES

All glasses are from our regular stock and are reduced for immediate clearance. All plus 20% Federal Excise Tax

	Reg.	SALE
4x40 Digal field glass	$ 15.00	$ 8.95
6x15 Prism Binoculars, coated, case	27.50	14.95
French Opera Glasses (pearl or Morocco finish, please specify)	29.50	16.95
6x50, 7x50, 10x56: These are world-famous Schutz-Kassel coated binoculars valued up to $150.00. Case included at this low price.	Your choice, only	59.50
6x30 Emden coated German Binoculars, case	65.00	39.50
8x30 Bremen coated German Binoculars, case	75.00	44.50
8x30 Stereophos, case	50.00	27.50
8x30 Stereolux, coated, case	60.00	32.50
7x35 Emilia (Bausch & Lomb type), coated, case	85.00	42.50
7x50 Novar, coated, case	85.00	47.50
7x50 Astra or Megaphos, coated, case	65.00	34.50

Many others in stock including Zeiss, B & L, etc.

SAVE UP TO $50.00 on

8mm CAMERAS and PROJECTORS

These are shopworn and demonstration models. All are in excellent condition. Sold with one year guarantee.

	Reg.	SALE
8mm Cameras		
Keystone Olympic K32 (roll), coated F1.9 fixed focus	$ 92.75	$ 65.00
DeJur Citation (roll), coated F1.9 fixed focus	89.50	64.50
DeJur Embassy Magazine, coated F2.5 fixed focus	106.95	74.50
DeJur Embassy Magazine, coated F1.9 fixed focus	118.95	84.50
8mm Projectors		
Revere Model 90 DeLuxe Projector, 400 ft. reel, 500 or 750 watt lamp, coated F1.6 lens and 17mm wide angle lens, complete with case	159.50	109.50
Keystone R8 Croydon Projector, 500 watt lamp	89.75	69.50

SAVE UP TO 33% ON 16mm

SOUND PROJECTORS

All projectors include 750 watt lamp and case. Shopworn and demonstration models. All in excellent condition . . . sold with one year guarantee.

Revere—1600' capacity	$325.00	$219.50
Bell & Howell 185C—2000' capacity	449.95	339.50
Ampro Stylist—2000' capacity	399.00	279.50
Kodascope Pageant—2000' capacity	400.00	289.00

SAVE $113.50 on Used 2¼x2¼

Zeiss SUPER IKONTA BX

If New $293.50 **only $179.50** (Excellent Condition)

With Eveready Leather case, compur rapid Synchro "X" shutter, coupled range finder, built-in electric cell exposure meter, automatic film transport.

SAVE $51.50 on Like New

2¼x3¼ ZEISS

SUPER IKONTA C

With T coated Zeiss Tessar Opton F3.5 lens

IF NEW $186 a new low price $129.50

- Compur Rapid MX Full Synchro Shutter
- Coupled rangefinder
- 8 or 16 pictures on roll

Leather Eveready case . . . $8.50

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Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
	14"	f/8		Same as above but with slot; covers 10x12 film.	205.00
	16½"	f/8		Same as above; covers 11x14 film.	225.00
	19"	f/8		Same as above; covers 12x16 film.	240.00
	24"	f/10		Same as above; covers 14x17 film.	270.00
Kino-Hypar, Anastigmat	0.6"	f/2.7		Three-element lens for 16-mm movie cameras; in focusing mount; coated. For wide angle work with 16-mm cameras.	Upon request
Cine Apogor, Anastigmat	25 mm	f/2.3	f/16	Six-element high quality lens for 16 (and 35-mm) movie cameras; corrected for all aberrations at full opening; comes in "C" focusing mount, coated.	Upon request
	50 mm	f/2.3	f/22	Same as above; coated.	
	75 mm	f/2.3	f/32	Same as above; coated.	
C-Dogmar, Anastigmat	6"	f/4.5		Four-element lens for telephoto work with 35-mm movie cameras; in iris barrel.	110.00
Rectagon	3"	f/6	f/22	Wide angle for general purposes; covers 4x5; can be used wide open; maximum average resolution at f/16; coated, in barrel with iris.	100.00
Hypar Anastigmat	0.6"	f/2.7		Three-element lens for 16-mm movie cameras; in focusing mount; wide angle.	Upon request
Graflex					
Graftar	103 mm	f/4.5	f/32	For still cameras, all surfaces coated, triplet formula suitable for color photography for 2¼x3¼ film for general photography, including portrait, personal, and enlarging, mounted in Century XFM Synchro shutter.	28.00
Optar	101 mm	f/4.5	f/32	For still cameras; corrected for color work; all lens surfaces coated; anastigmat; mounted in Graphex Synchro shutter; covers 2¼x3¼ film; for portrait, commercial copy, and enlarging.	72.60
	135 mm	f/4.7	f/32	Same as above; covers 3¼x4¼ film; used on 4x5.	85.30
	135 mm	f/4.7	f/32	Same as above; in Graphex X shutter	66.60
	162 mm	f/4.5	f/32	Same as above; covers 4x5 in. No. 3 Graphex Synchro shutter.	106.95
	162 mm	f/4.5	f/32	Same as above; in No. 3 Graphex (X) shutter.	92.65
	203 mm	f/7.5	f/32	For view and other still cameras; corrected for color; all surfaces coated; anastigmat; portrait, commercial and enlarging; intended to be used on 4x5 view cameras; in No. 2 Graphex Synchro shutter.	86.35
Tele-Optar	202 mm	f/5.6	f/45	For still photography; anastigmat; all surfaces coated; covers 3¼x4¼; in barrel with iris diaphragm.	96.90
	202 mm	f/5.6	f/45	Same as above, in No. 2 Graphex Synchro shutter.	143.10
	10"	f/5.6	f/32	For still photography. Optar formula; all surfaces coated; covers 4x5 film; in barrel mount.	129.90
Tele-Optar	10"	f/5.6	f/32	Same as above, in No. 3 Graphex shutter.	$153.00
	10"	f/5.6	f/32	Same as above, in No. 3 Graphex (X) shutter.	161.25
	15"	f/5.6	f/32	Same as above; covers 4x5 film; in barrel.	192.45
	15"	f/5.6	f/32	Same as above, in No. 4 Alphax Synchro shutter.	213.10
Wide Angle Optar	65 mm	f/6.8	f/32	For interior, architectural and group photography; focusing aperture at f/6.8, taking apertures from f/11 to f/32; all surfaces coated; in Graphex Synchro shutter; covers 3¼x4¼ film.	98.20
	90 mm	f/6.8	f/32	For interiors, banquet, and architectural work; focusing aperture f/6.8, taking apertures from f/11 to f/32; all surfaces coated; in Graphex Synchro shutter; covers 3¼x4¼ and 4x5 film.	101.55
Hugo Meyer					
Kino Plasmat	1"	f/1.5	f/16	High-speed anastigmat lens for 16-mm movie cameras; highly corrected; coated.	82.50
Trioplan	1½"	f/2.7	f/16	Cooke Triplet type lens; coated; screw focusing mount; for 8-mm cameras.	49.50
	3"	f/2.8	f/16	Same as above; for 16-mm cameras.	78.00
Primotar	3½"	f/4.5	f/22	Enlarging lens; coated; highly corrected.	25.50
Primoplan	3½"	f/4.5	f/16	Enlarging lens; coated; highly corrected.	25.50
Ilex					
New Paragon, Anastigmat	2"	f/4.5		Highly corrected anastigmat; coated; for black-and-white and color work; covers 35-mm film; iris barrel.	30.84
	3"	f/6.3		Same as above; covers 2¼x2¼; iris barrel.	28.44
	3"	f/4.5		Highly corrected anastigmat; coated; for black-and-white and color work, available in Universal shutter for $41.30. Covers 2¼x2¼ film. All prices in right-hand column are for lens in barrel.	36.90
	3½"	f/6.3		Same as above; covers 2¼x3¼ film.	30.00
	3½"	f/4.5		Same as above; covers 2¼x3¼ film.	38.94
	4¼"	f/4.5		Same as above; covers 2½x3½ film.	46.32
	5"	f/4.5		Same as above; covers 3¼x4¼ film.	52.44
	5½"	f/4.5		Same as above; covers 3¼x4¼ film.	57.90
New Paragon, Anastigmat	6½"	f/6.3		Same as above; covers 4x5.	56.40
	6½"	f/4.5		Same as above; covers 4x5 film; in Ilex Universal, $77.45; in Ilex Acme No. 3, $83.15; in Acme Synchro shutter, $116.00.	69.90
	7½"	f/4.5		Same as above; covers 5x7 film; in Ilex Universal, $88.80; in Ilex Acme No. 3, $94.50; in Acme Synchro shutter, $127.35.	85.92
	8½"	f/4.5		Same as above; covers 5x8 film; in Ilex Universal, $108.20; in Ilex Acme No. 4, $113.90; in Acme Synchro shutter, $144.45.	122.04
	10"	f/4.5		Same as above; covers 6½x8½ film; in Ilex Universal, $153.50; also available in Ilexpo Studio shutter.	172.32
	12"	f/6.3		Same as above; covers 8x10 film; in Ilex Universal, $115.90; in Ilex Acme No. 4, $121.60; in Acme Synchro shutter, $152.15.	131.28
	12"	f/4.5		Same as above; covers 8x10 film; in Ilex Universal, $182.00.	206.52
	14¼"	f/6.3		Same as above; covers 11x14 film; in Ilex Universal, $200.40.	231.00
Ilex Enlarging Lens	2"	f/4.5	f/32	Coated anastigmat lens; color corrected; barrel mount; iris diaphragm; Series C type; covers 1¼x1½ negative.	21.90
	3"	f/4.5	f/32	Same as above; covers 2½x2½ negative; Series S.	28.32
	3½"	f/4.5	f/32	Same as above; covers 2¼x3¼ negative.	30.36
	4¼"	f/4.5	f/32	Same as above; covers 2½x3½ negative.	39.24
	5"	f/4.5	f/32	Same as above; covers 3¼x4¼ negative.	46.08
	5½"	f/4.5	f/32	Same as above.	51.36
	6½"	f/4.5	f/32	Same as above; covers 4x5 negatives.	60.60
	7½"	f/4.5	f/32	Same as above; covers 5x7 negatives.	76.44
	8½"	f/4.5	f/32	Same as above.	114.24
Kajiro Dist.—A. G. Photo Distributors					
Kajiro Anastigmat	38 mm	f/1.9	f/16	For 8-mm movie cameras; four elements, coated; focuses 3½ ft. to infinity.	39.75
	38 mm	f/3.2	f/16	Same as above except is fixed focus.	15.00
Kern-Paillard Dist.—Paillard Products, Inc.					
Switar	12.5 mm	f/1.5	f/22	High speed lens for Bolex and other 8-mm cameras; focuses from ¾ ft. to infinity; depth of field scale; compass.	120.50
	25 mm	f/1.4	f/22	High speed lens for Bolex H-16; focuses from 1½ ft. to infinity; compass depth of field scale.	178.50
	25 mm	f/1.5	f/22	Same as above with Visifocus.	122.00
Yvar	13 mm	f/1.9	f/22	ASA mount, Visifocus.	79.00
	16 mm	f 2.8	f/22	Wide angle lens for Bolex H-16 and other 16-mm cameras; focuses from 1 ft. to infinity; depth of field scale; in "C" mount, Visifocus.	76.50
	25 mm	f/2.5	f/22	Fast telephoto for Bolex and other 8-mm cameras; focuses from 1½ ft. to infinity; ASA mount; Visifocus.	59.50
	36 mm	f/2.8	f/22	Same as above, focuses from 2 ft. to infinity, Visifocus.	62.50
	75 mm	f/2.8	f/22	Telephoto for Bolex and other 16-mm cameras; focuses from 5 ft. to infinity; in "C" mount, Visifocus.	94.50
	100 mm	f/3.3	f/22	Same as above; focuses from 8 ft. to infinity, Visifocus.	106.00
	150 mm	f/4	f/22	Same as above; focuses from 10 ft. to infinity, Visifocus.	145.75
Pisar	26 mm	f/1.9	f/22	Same as above; in "C" mount with Visifocus.	94.25
Som Berthiot Pan Cinor	20-60 mm	f/2.8	f/22	Fast zoom-type lens in "C" mount; own coupled viewfinder; focuses from 5 ft. to infinity.	447.50
Kilar, Kilfitt Dist.—Kling Photo Corp.					
Kilar	90 mm	f/3.5		Color corrected, telephoto, for Leica, Kine Exacta, and similar cameras with or without reflex housings.	75.00
	135 mm	f/3.8		Same as above.	90.00
	150 mm	f/3.5		Same as above.	97.50
	300 mm	f/5.6		Same as above.	130.00
	400 mm	f/5.6		Same as above.	240.00
(Kilarscope housing)				Reflex housing with roof prism; for Leica, Canon and similar cameras.	99.75
(Reprascope housing)				Same as above.	154.50
(Kilarflex housing)				Same as above.	64.80
Kinotar Dist.—Photographic Importing and Distributing Corp.					
Kinotar Anastigmat	6 mm	f/1.9	f/16	For 8-mm; click stops, fixed focus, filter retainer.	39.95
	7 mm	f/2.5	f/16	Same as above, but supplied in standard 8-mm D-mounts; also in B&H mounts to fit 172-A,B, 134-V,W.	29.95
	17 mm	f/2.7	f/16	Click stops, focuses from 10".	34.95
Kinotar Wide Angle	6 mm	f/1.9	f/16	Anastigmat; coated; click stops; for 8-mm cameras.	39.95
Leitmeyr Dist.—Spiratone					
Leitmeyr Wide Angle	105 mm	f/6.8	f/16	In Prontor II shutter, covers 4x5 film.	19.95
	120 mm	f/6.8	f/16	In Prontor II shutter, covers 5x7 film.	19.95
Meyer Optik Dist.—Ercona Camera Co.					
Trioplan	100 mm	f/2.8		In mount for Master Reflex.	120.00
Makro-Plasmat	105 mm	f/2.7		Same as above.	165.00
Primotar	180 mm	f/3.5		Same as above.	195.00
Tele-Megor	250 mm	f/5.5		Same as above.	180.00
Tele-Megor	400 mm	f/5.5		Same as above.	250.00
Nikkor Dist.—Nikon Camera Co., Inc.					
Cine Nikkor	13 mm	f/1.9	f/16	High speed lens for 8-mm movie cameras; coated; chromium plated; choice of fixed focus or focusing mounts.	Upon request
	13 mm	f/2.5	f/32	Same as above, fixed focus only.	
	38 mm	f/1.9	f/16	High speed telephoto for 8-mm movie cameras; coated; color corrected; focusing mount.	59.50
Nikkor Anastigmat	35 mm	f/3.5	f/22	Wide angle lens for 35-mm cameras; all inner surfaces coated; Nikon (fits Contax) or Leica mount.	89.50
	35 mm	f/2.5	f/22	High speed, wide angle for 35-mm cameras, click stops.	154.00
	50 mm	f/1.4	f/16	High speed standard lens for 35-mm cameras; diaphragm click stops;	

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
				coated all inner surfaces; Nikon (fits Contax) or Leica mount.	198.00
	50 mm	f/2	f/16	Same as above without click stops.	107.00
	85 mm	f/2	f/32	Telephoto same as above.	175.50
	135 mm	f/3.5	f/32	Telephoto same as above with lens barrel tripod socket.	145.00
	135 mm	f/3.5	f/32	Telephoto mounted for Exakta.	145.00
Olympus Optical Co. Dist.—Photographic Importing and Distributing Co.					
Olympus Wide-Angle	40 mm	f/3.5		For Exa, Kine Exakta, helical focusing mount, with leather case.	54.95
Piesker Dist.—Ercona Camera Corp.					
Piesker	40 mm	f/4.5		For Contax-S, Praktica, Exakta.	60.00
	100 mm	f/3.5		For Contax-S, Praktica, Exakta. Preset diaphragm.	100.00
	135 mm	f/3.5		For Contax-S, Praktica, Exakta, Primar Reflex, Master Reflex, Hasselblad, and pre-war Korelle, preset diaphragm.	120.00
	150 mm	f/5.5		Telephoto; same as above.	80.00
	180 mm	f/5.5		Telephoto; same as above.	105.00
Rodenstock Dist.—Alfa Photo Corp.					
Heligon	35 mm	f/2.8	f/22	In barrel for Leica mount with rangefinder coupling. Angle of view 63.5°	Inc. F.E.T.
Perigon	1) 90 mm	f/12		Extreme wide angle lenses for negative sizes from 9x12-cm to 13x18-cm (approx. equivalent to 3¼x4¼ to 5x7. Angle of view 85°. Available in Prontor and Compur fully synchronized shutters.	(Prices for Prontor Shutter)
	2) 110 mm	f/12			1) 52.65
	3) 130 mm	f/12			2) 58.50
					3) 59.50
Imagon	120 mm	f/4.5	f/11.5	Portrait lens with optically controlled softening disc may be used with and without grids: In barrel for 24x35-mm neg. Kine Exakta, Exakta-Varex camera.	128.50
	120 mm	f/4.5		In barrel for 2¼x2¼ neg. for Reflex-Korelle camera.	128.50
	120 mm	f/4.5		In barrel for 2¼x2¼ neg. for Primarflex camera.	128.50
	120 mm	f/4.5		In barrel for 1¾x2¼ neg. for VP Exakta camera.	128.50
	120 mm	f/4.5		In barrel for 2¼x2¼ neg. for Hasselblad camera.	128.50
	200 mm	f/5.8		In compound shutter for 3¼x4¼ neg. for press camera.	137.25
	250 mm	f/5.8		In compound shutter for 4x5 neg. for press camera.	153.00
	300 mm	f/5.8		In compound shutter for 5x7 neg. for view camera.	178.00
	360 mm	f/5.8		In barrel for 6x8½ neg. for view & studio camera.	130.50
	420 mm	f/5.8		In barrel for 8x10 neg. for studio camera.	142.00
	480 mm	f/5.8		In barrel for 10x12 neg. for studio camera.	189.00
Schneider Dist.—Burleigh Brooks Co.					
Xenar	105 mm	f/3.5		General-purpose lens in barrel mount; coated (available in Compur Rapid Shutter for $65.43).	51.85
					Inc. F.E.T.
	150 mm	f/3.5		Same as above (in Compur Shutter $109.00).	58.95
	180 mm	f/3.5		Same as above (in Compound Shutter $155.10).	96.45
	210 mm	f/3.5		Same as above (in Compound Shutter $174.00).	118.95
	240 mm	f/3.5		Same as above (in Compound Shutter $207.90).	148.50
	300 mm	f/3.5		Same as above.	270.75
	105 mm	f/4.5		General-purpose lens in barrel mount (in Compur Rapid Shutter $46.20); coated.	33.66
	135 mm	f/4.7		For all photographic purposes, in Compur Rapid Shutter.	47.95
	150 mm	f/4.5		General-purpose lens in barrel mount; coated; (in Compur Shutter $76.00).	40.35
	150 mm	f/4.5		Same as above, but in M-X Synchro-Compur.	113.95
	180 mm	f/4.5		Same as above (in Compur Shutter $101.70).	57.45
	210 mm	f/4.5		Same as above (in Compound Shutter $127.35).	73.95
	240 mm	f/4.5		Same as above (in Compound Shutter $169.05).	112.80
	270 mm	f/4.5		Same as above (in Compound Shutter $191.10).	139.95
	300 mm	f/4.5		Same as above (in Compound Shutter $225.00).	169.65
	360 mm	f/4.5		Same as above.	210.75
Tele-Xenar	180 mm	f/4.5		Special lens for distance work (in Compur Shutter $115.90); coated; in barrel mount.	86.70
	240 mm	f/4.5		Same as above (in Compur Shutter $155.10).	118.20
	180 mm	f/5.5		Same as above (in Compur Rapid Shutter $61.35).	52.20
	180 mm	f/5.5		Same as above but in new M-X Compur Rapid Synchro Shutter.	71.65
	240 mm	f/5.5		For distance work, in barrel mount; coated; (in Compur Shutter $100.00).	70.65
	240 mm	f/5.5		Same as above, but in M-X Synchro-Compur.	113.95
	270 mm	f/5.5		Same as above (in Compur Shutter $125.00).	81.00
	300 mm	f/5.5		Same as above (in Compur Shutter $138.00).	96.45
	360 mm	f/5.5		Same as above (in Compound Shutter $170.00).	118.95
Angulon Wide Angle	65 mm	f/6.8		Uses six elements grouped as two triplets; maximum field of angle, 105 degrees (in M-X Compur Rapid Synchro Shutter $63.36); in barrel mount; coated.	46.07
					Inc. F.E.T.
	90 mm	f/6.8		Same as above (in M-X Compur Rapid Synchro Shutter $67.26).	46.07
					Inc. F.E.T.
	120 mm	f/6.8		Same as above (in Compur Shutter $85.01).	52.53
					Inc. F.E.T.
	165 mm	f/6.8		Same as above (in Compur Shutter $113.00).	68.85
	210 mm	f/6.8		Same as above (in Compound Shutter $125.85).	86.40
Xenogon	53 mm	f/2.8		A wide-angle for Leica, coupled to rangefinder; coated.	95.66
					Inc. F.E.T
Symmar	135 mm	f/6.8		A symmetrical anastigmat; six elements grouped in two triplets; single triplets may be used alone, giving focal length approximately twice that of combination. Field angle is 65 degrees wide open; 80 degrees stopped down; (in Compur Rapid Shutter $51.75).	40.35
	180 mm	f/6.8		Same as above (in Compur Shutter $91.80).	65.40
	210 mm	f/6.8		Same as above (in Compur Shutter $101.40).	77.25
	240 mm	f/6.8		Same as above (in Compur Shutter $137.70).	100.80
	300 mm	f/6.8		Same as above (in Compound Shutter $189.00).	148.80
	360 mm	f/6.8		Same as above (in Compound Shutter $225.30).	181.50
Componar	50 mm	f/4.5		Enlarging lens; coated; in focusing mount with iris diaphragm; negative size 1¾x1¾.	16.85
	50 mm	f/4.5		Same as above, but in special mount for Leitz enlarger.	22.40
	50 mm	f/3.5		Same as above, focusing mount.	27.80
	50 mm	f/3.5		Same as above, but in special mount for Leitz enlarger.	31.95
	75 mm	f/4.5		Same as above; negative size 2¼x2¼.	19.76
	75 mm	f/3.5		Same as above.	30.15
	105 mm	f/4.5		Same as above; negative size 2⅝x3⅝.	22.00
	135 mm	f/4.5		Same as above; negative size 4x5.	35.00
Cinegon Cine Lenses (8-mm)	6.5 mm	f/1.9		For 8-mm movie cameras; high resolving power; coated; in focusing "C" mount.	136.00
					Inc. F.E.T.
Xenon Cine (8-mm)	13 mm	f/1.5		Same as above.	100.30
					Inc. F.E.T.
	25 mm	f/1.5		Same as above.	81.02
					Inc. F.E.T.
Xenar Cine (8-mm)	38 mm	f/2.8		Same as above.	58.95
	45 mm	f/2.8		Same as above.	58.95
Cinegon (16-mm)	11.5	f/1.9		Same as above, but for 16-mm movie cameras.	141.67
					Inc. F.E.T.
Xenon (16-mm)	16 mm	f/1.9		Same as above.	89.52
					Inc. F.E.T.
	25 mm	f/1.5		Same as above.	99.27
					Inc. F.E.T.
	50 mm	f/2.3		Same as above.	61.50
Tele-Xenar (16-mm)	75 mm	f/3.8		Same as above.	55.00
	100 mm	f/3.8		Same as above.	85.35
	150 mm	f/4.5		Same as above.	94.20
Schneider (For Robot) Dist.—Intercontinental Marketing Corp.					
Schneider for Robot Star	30 mm	f/3.5	f/16	Wide-angle.	99.50
	38 mm	f/2.8	f/16	Standard.	82.50
	40 mm	f/1.9	f/16	Standard.	117.50
	75 mm	f/3.8	f/22	Telephoto.	110.50
	150 mm	f/4.5	f/32	Telephoto.	157.50
Spiratone Dist.—Spiratone Inc.					
Spiratone	6 mm	f/1.9	f/16	Wide angle lens for 8-mm movie cameras; anastigmat; coated; fixed focus, screw mount; filter retainer.	29.95
	7 mm	f/2.5	f/16	Fixed focus, filter retainer.	19.95
	1"	f/3.5	f/16	Telephoto lens for 8-mm camera; anastigmat; coated; screw mount; fixed focus.	9.95
	1½"	f/3.2	f/16	Fixed focus.	12.95
	1½"	f/3.2	f/16	Same as above, but in focusing mount.	16.95
	1½"	f/1.5		Focusing mount; click stops; depth of field scale; filter retainer.	39.95
	1½"	f/1.9	f/16	Same as above.	29.95
Starr Dist.—Starr Corp.					
Platar	6 mm	f/1.9		Fixed focus.	48.50
	1½"	f/3.5		Fixed focus.	25.50
	1½"	f/3.5		In focusing mount.	33.50
	1½"	f/2.5		In focusing mount.	44.50
	3"	f/2.9		In focusing mount.	53.50
Steinheil Dist.—Kine Camera Co.					
Orthostigmat	35 mm	f/4.5		Rangefinder-coupled wide-angle for Leica; coated.	Upon request
Culminar Portrait	85 mm	f/2.8		Rangefinder-coupled for Leica; (with mount for Exakta $68.00).	83.00
Culminar Telephoto	85 mm	f/2.8		For Praktiflex; Praktica; and Contax-S.	68.00
	135 mm	f/4.5		For Exakta and Praktiflex; (RF coupled for Leica $75.00).	60.00
	135 mm	f/2.8		For Praktica and Contax-S.	60.00
Cassar Cine Telephoto	8 mm	f/2.8		For 8-mm movie cameras; coated.	39.95
					Inc. F.E.T.
Steky Dist.—Wilmot Sales					
Steky Telephoto	40 mm	f/5.6	f/16	For Steky camera; can be used with adaptor on 16-mm movie cameras. Adaptor, $1.95.	13.95
Sun Imp.—Photographic Import. & Dist. Corp.					
Sun	90 mm	f/4	f/22	Telephoto in focusing mount for Kine Exakta; coated.	51.95
	90 mm	f/4	f/22	Same as above; in coupled Leica mount.	59.95
	135 mm	f/3.8	f/22	Same as above; for Kine Exakta.	59.95
	90 mm	f/4	f/22	Preset diaphragm, for Kine Exakta, Praktica, Contax-S, Exa, Praktiflex-FX.	64.95
	135 mm	f/3.8	f/22	Preset diaphragm for Kine Exakta, Praktica, Contax-S, Praktiflex-FX.	74.95
	85 mm	f/2	f/22	Preset diaphragm for Kine Exakta, Praktica, Contax-S, Praktiflex-FX.	125.00
	85 mm	f/2	f/22	Rangefinder coupled to Leica.	125.00
Voigtlander Dist.—Willoughbys					
Color-Skopar	105 mm	f/3.5	f/22	General photography, portrait and commercial work. 4-element, Compur Rapid M X full sync shutter.	75.00
Heliar	15 cm	f/4.5		General purpose 5-element lens; coated; Compur shutter.	92.50
	21 cm	f/4.5		Portrait lens; 5-element; Compound shutter.	135.00
	24 cm	f/4.5		Same as above.	173.00
	30 cm	f/4.5		Same as above.	243.75
Nokton	50 mm	f/1.5	f/16	7-element anastigmat lens, designed for 35-mm cameras. In mount.	185.00

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
Ultragon	11.5 cm	f/5.5	f/32	Exceedingly sharp wide-angle lens, for 5x7, compound shutter.	135.00
Apo-Lanthar	15 cm	f/4.5	f/32	Commercial and general work, exceedingly sharp. Press compur shutter	98.50
	21 cm	f/4.5	f/32	Same as above, except compound shutter.	169.00
Apo-Skopar	30 cm	f/9	f/64	Reproduction-Apochromat lens of highest correction for line, autotype and color photography. In barrel with iris diaphragm and Waterhouse stops.	175.00
	45 cm	f/9	f/64	Same as above.	262.50
	60 cm	f/9	f/64	Same as above.	385.00
	75 cm	f/9	f/64	Same as above.	650.00
Wollensak					
Raptar, Series II, Anastigmat	75 mm	f/4.5	f/32	Same as above; covers 2¼x2¼; in Rapax $48.25; in Rapax X synch $57.05; in Rapax full synch $71.08; in barrel with iris.	36.91 Inc. F.E.T.
	90 mm	f/4.5	f/32	For high-speed photography; portrait, commercial, enlarging and copy work; coated; iris diaphragm; barrel mount; chrome finish; in Rapax shutter $48.86 inc. tax; in Rapax full synch $71.69; covers 2¼x3¼ film; in barrel mount.	37.52 Inc. F.E.T.
	101 mm	f/4.5	f/32	Same as above; covers 2½x3½ film; in Rapax $49.77; in Rapax full synch $72.60; in barrel.	38.43 Inc. F.E.T.
	114 mm	f/4.5	f/32	Same as above; covers 2¼x3¼ film; in Rapax $58.63; in Rapax full synch $86.13; in barrel.	41.79 Inc. F.E.T.
	127 mm	f/4.5	f/32	Same as above; covers 3¼x4¼ film; in Rapax $55.68; in Alphax $53.48; in barrel.	36.98
	135 mm	f/4.7	f/32	Same as above; covers 4x5 film; in Rapax $57.84; in Alphax $55.64; in barrel with f/4.5 speed.	39.14
	162 mm	f/4.5	f/32	Same as above; covers 4x5 film; in Rapax $84.44; in Alphax $78.94; in barrel.	61.34
	7½"	f/4.5	f/32	Same as above; covers 5x7 film; in Alphax $99.46; in barrel.	81.86
	8¼"	f/4.5	f/32	Same as above; covers 5x8 film; in Alphax $136.83; in barrel.	123.08
	9½"	f/4.5	f/32	Same as above; covers 6½x8½ film; in Alphax $179.22; in barrel.	165.47
	11¼"	f/4.5	f/32	Same as above; covers 8x10 film; in Alphax $231.16; in barrel.	219.41
Raptar Telephoto, Anastigmat	8"	f/5.6	f/45	For still photography; Raptar formula; covers 2¼x3¼ and 3¼x4¼ films; black lacquer finish; specially designed for sports, news and architectural work; coated; 2½x linear magnification; in Rapax $115.62; in barrel.	96.92
	10"	f/5.6	f/45	Same as above; covers 3¼x4¼ and 4x5 films; in Alphax $147.52; in Rapax $153.02; in barrel.	129.92
	15"	f/5.6	f/45	Same as above; covers 4x5 and 5x7 films; in Alphax $206.22; in barrel.	192.47
Raptar Wide Angle, Anastigmat	65 mm	f/6.8	f/32	For interior, group, banquet and architectural work; where lighting is poor; coated; taking apertures from f/11 to f/32; 92.6° angle of view; black lacquered brass mount; covers 3¼x4¼ film; in Rapax $75.40; in barrel.	64.06 Inc. F.E.T.
	90 mm	f/6.8	f/32	Same as above; covers 4x5 film; 84° angle of view; in Rapax $78.76; in barrel.	67.42 Inc. F.E.T.
	4¼"	f/6.8	f/32	Same as above; covers 5x7 film; 90.6° angle of view; in Alphax $89.07; in Rapax $91.27; in barrel.	74.43 Inc. F.E.T.
Extreme Wide Angle, Series IIIa	159 mm	f/12.5	f/45	For extreme wide angle work in still photography; coated; anastigmat; covers 8x10 film; in Rapax $93.62; in Alphax $88.12; in barrel.	70.52
Portrait Veritar	10"	f/6		Soft focus lens for portraiture; covers 5x7 film; in barrel.	103.10
				Same as above, in Alphax.	116.85
	14"	f/8		Same as above, in barrel; covers 8x10 film.	165.75
				Same as above, in Alphax.	154.75
				NOTE: All Wollensak shutters are available with built-in synchronization at a slight additional charge over prices given.	
Cine-Raptar, Normal	13 mm	f/1.9	f/22	For 8-mm movie cameras; coated; high speed in chrome plated focusing mount.	47.60 Inc. F.E.T.
	13 mm	f/1.9		For 8-mm cameras; coated; in chrome plated fixed focus mount.	27.72 Inc. F.E.T.
	1"	f/1.5		Same as above, but for 16-mm cameras; click stops; depth of field scale.	98.00 Inc. F.E.T.
	1"	f/1.9	f/22	For 16-mm cameras; focusing mount; high speed.	61.30 Inc. F.E.T.
Cine-Raptar Telephoto	38 mm	f/1.5	f/22	High-speed telephoto for 8-mm.	67.50
	1"	f/2.5	f/16	Anastigmat, coated; for 8-mm movie cameras, chrome focusing mount.	46.20 Inc. F.E.T.
	40 mm	f/1.5	f/22	For 16-mm cameras; chrome focusing mount; high speed.	95.00
	1½"	f/2.5		For 8-mm cine cameras; chrome focusing mount.	57.75
	1½"	f/3.5	f/22	For 8-mm movie cameras; anastigmat; coated; chrome focusing mount.	41.25
	1½"	f/3.5		Same as above but fixed focus.	24.75
	2"	f/1.9		For 16-mm cameras; chrome focusing mount.	87.50
	2"	f/1.5		Same as above.	120.00
	2"	f/2.5	f/22	In focusing mount; coated; high speed telephoto.	69.50
	2"	f/3.5	f/16	For 16-mm cameras; focusing mount.	52.25
	2½"	f/2.5	f/22	In focusing mount, high speed; coated; 2½x magnification.	77.50
	3"	f/2.5		Same as above.	87.50
	3"	f/4	f/32	Same as above.	60.50
	3"	f/2.8	f/22	Same as above except barrel is smaller; for use on cameras in combination with extreme wide-angle lenses.	68.50
	4"	f/4.5	f/32	Same as above.	66.00
	6"	f/4.5	f/32	Same as above.	99.75
Cine-Raptar Wide Angle	6.5 mm	f/1.9		For 8-mm cameras; fixed focus; coated.	70.00 Inc. F.E.T.
	6.5 mm	f/2.5	f/22	In fixed focus, high-speed wide angle, same as above.	44.24
	9 mm	f/2.5	f/22	In fixed focus, high speed wide angle, covers 2x normal area.	44.24

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
	½"	f/1.5	f/16	In focusing mount; covers full x area of normal lens; for 16-mm cameras; high speed; coated; drop-in haze filter included.	99.68
	17 mm	f/2.7	f/16	Same as above but in fixed focus, covers 2.2x area of normal lens.	29.40
	17 mm	f/2.7	f/16	Same as above but in focus mount.	58.80
	17 mm	f/2.5		Same as above, but high speed telephoto.	75.60
				NOTE: All Wollensak Cine-Raptar lenses include drop-in haze filter.	
Enlarging Raptar	2"	f/4.5	f/22	Anastigmat, screw, barrel mount; iris diaphragm; chrome-plated; marking based on physical measurements; click stops.	24.02
	3"	f/4.5	f/32	Same as above; covers 2¼x2¼ negative; click stops.	26.18
	3½"	f/4.5	f/32	Same as above; covers 2¼x3¼ negative; click stops.	28.43
	4"	f/4.5	f/32	Same as above, click stops.	33.74
	5"	f/4.5	f/45	Same as above but covers 3¼x4¼ negative, click stops.	40.76
	5⅝"	f/4.5	f/32	Same as above but covers 4x5 negative, click stops.	43.46
	6⅝"	f/4.5	f/32	Same as above, click stops.	57.56
	7½"	f/4.5	f/45	Same as above but covers 5x7 negative.	78.62
	8¼"	f/4.5	f/32	Same as above; covers 5x8 negative	110.12
	9½"	f/4.5	f/32	Same as above; covers 6½x8½ negative.	138.47
	11⅞"	f/4.5	f/32	Same as above; covers 8x10 negative.	192.41
Zeiko Dist.—Photographic Importing and Distributing Co.					
Ropar Wide Angle	35 mm	f/3.5	f/22	Rangefinder coupled to Leica, click stops.	84.95
Zeiss Dist.—Carl Zeiss, Inc.					
Tessar, Anastigmat	2"	f/2.7		Fourelement; coated; iris diaphragm; available in Compur shutter; covers ¾x1 film; barrel mount.	Upon request
	7"	f/2.7		Same as above; covers 4¼x6½ film.	
	2"	f/2.8		Same as above; covers 1⅝x1⅜ film.	
	2⅝"	f/2.8		Same as above.	
	3"	f/2.8		Same as above; covers 1¼x2⅝ film.	
	3½"	f/2.8		Same as above; covers 2¼x2¼ film.	
	2"	f/3.5		Same as above; covers 1⅝x1⅜ film.	
	2⅝"	f/3.5		Same as above; covers 1⅜x1⅜ film.	
	3"	f/3.5		Same as above; covers 1¾x2⅝ film.	
	3¼"	f/3.5		Same as above.	
	4¼"	f/3.5		Same as above; covers 2½x3½ film.	
	4¾"	f/3.5		Same as above.	
	5¼"	f/3.5		Same as above; covers 3¼x4¼ film.	
	6"	f/3.5		Same as above; covers 4x5 film.	
	6½"	f/3.5		Same as above; covers 4x6 film.	
	8¼"	f/3.5		Same as above; covers 5x7 film.	
	10"	f/3.5		Same as above; covers 5x8 film.	
	12"	f/3.5		Same as above; covers 6½x8½ film.	
	1½"	f/4.5		Same as above; covers 1⅛x1¼ film.	
	2"	f/4.5		Same as above; covers 1¼x1½ film.	
	2¼"	f/4.5		Same as above; covers 1¾x1¾ film.	
	2½"	f/4.5		Same as above; covers 1¾x2 film.	
	3"	f/4.5		Same as above; covers 2⅝x2⅝ film.	
	3½"	f/4.5		Same as above; covers 2¼x3¼ film.	
	4½"	f/4.5		Same as above; covers 2½x3½ film.	
	4½"	f/4.5		Same as above.	
	5¼"	f/4.5		Same as above; covers 3¼x4¼ film.	
	6"	f/4.5		Same as above; covers 4x5 film.	
	6½"	f/4.5		Same as above; covers 4x6 film.	
	7"	f/4.5		Same as above; covers 4¾x6½ film.	
	8¼"	f/4.5		Same as above; covers 5x7 film.	
	10"	f/4.5		Same as above; covers 5x8 film.	
	12"	f/4.5		Same as above; covers 6½x8½ film.	
	14"	f/4.5		Same as above; covers 6½x8½ film.	
	16"	f/4.5		Same as above; covers 6½x8½ film.	
	20"	f/4.5		Same as above; covers 8x10 film.	
	3"	f/6.3		Same as above; covers 2⅝x2⅝ film.	
	3½"	f/6.3		Same as above; covers 2¼x3¼ film.	
	4½"	f/6.3		Same as above; covers 2½x3½ film.	
	5¼"	f/6.3		Same as above; covers 3¼x4¼ film.	
	6"	f/6.3		Same as above; covers 4x5 film.	
	6½"	f/6.3		Same as above; covers 4x6 film.	
	7"	f/6.3		Same as above; covers 4¾x6½ film.	
	8¼"	f/6.3		Same as above; covers 5x7 film.	
	10"	f/6.3		Same as above; covers 5x8 film.	
	12"	f/6.3		Same as above; covers 6½x8½ film.	
	14"	f/6.3		Same as above; covers 8x10 film.	
	24"	f/6.3		Same as above.	
Zeiss, Jena Dist.—Ercona Camera Corp.					
Carl Zeiss Coated Tessar	40 mm	f/4.5		For Contax S; coated.	150.00
	50 mm	f/3.5	f/22	Anastigmat; coated; covers 1⅜x1⅜; in Compur Rapid Shutter $50; in barrel with iris.	39.00 Inc. F.E.T.
	50 mm	f/4.5	f/32	Same as above; covers 1⅝x2⅝; in Compur Rapid Shutter $47.50; in barrel with iris.	36.00 Inc. F.E.T.
	75 mm	f/3.5	f/22	Same as above; covers 1¾x2⅝.	45.00 Inc. F.E.T.
	75 mm	f/4.5	f/32	Same as above; covers 2⅝x2⅝.	36.00 Inc. F.E.T.
	105 mm	f/3.5	f/22	Same as above; covers 2½x3½.	55.00 Inc. F.E.T.
	105 mm	f/4.5	f/32	Same as above; in Compur Rapid Shutter $54; in barrel with iris.	39.00 Inc. F.E.T.
	135 mm	f/4.5	f/32	Same as above; covers 3¼x4¼.	55.00
	135 mm	f/6.3	f/32	Same as above but covers 4x5; in Compur Rapid Shutter.	55.00
	150 mm	f/3.5	f/22	Same as above; covers 4x5.	99.00
	150 mm	f/4.5	f/32	Same as above; in Press Compur $87; in barrel with iris.	60.00
	165 mm	f/3.5		Same as above; in Compound Shutter $175; in barrel; covers 4x6.	120.00
	180 mm	f/4.5		Same as above; covers 4¼x6½; in Compur Shutter $120; in barrel.	75.00
	210 mm	f/3.5		Same as above; covers 5x7; in Compound Shutter $250; in barrel.	198.00
	210 mm	f/4.5		Same as above; in Compound Shutter $150; in barrel.	99.00
	210 mm	f/6.3		Same as above; covers 5x7; in Press Compur Shutter.	120.00
	250 mm	f/3.5		Same as above; covers 5x8; in Compound Shutter $325; in barrel.	270.00
	250 mm	f/4.5		Same as above; covers 5x8; in Compound Shutter $198; in barrel.	150.00
	300 mm	f/4.5		Same as above; covers 6½x8½; in Compound Shutter $300; in barrel.	250.00
Flektogon	35 mm	f/3.5		For Contax S; "T" coated.	Upon request
Biotar	58 mm	f/2		Fast lens for Contax S; "T" coated.	Upon request
	75 mm	f/1.5		Ultra fast lens for Contax S; "T" coated.	295.00

Manufacturers' and distributors' addresses begin on page 194

HURRY! CONTEST CLOSES APRIL 30, 1953! STILL TIME TO...

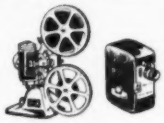
FLASH A PICTURE WIN A BIG PRIZE

IN

SYLVANIA'S EXCITING FLASH PHOTO CONTEST

"Folks are Fun"

WIN A Complete Bell & Howell Movie Outfit



WIN A Roadmaster Streamlined Bicycle

WIN A Deluxe V-M Record Player

WIN A 21" Sylvania Montclair Television Set

WIN A Quiet Kool Air Conditioner

WIN A Regina Electric Floor Polisher & Electrikbroom

WIN A NASH RAMBLER CONVERTIBLE

open to both Junior and Senior Contestants

TWO BIG CONTESTS IN ONE!

50 Prizes for Youngsters (under 18)		50 Prizes for Grown-Ups (18 and over)
21" Sylvania Montclair TV Set	1st prize	21" Sylvania Montclair TV Set
Bell & Howell Movie camera, projector	2nd prize	Bell & Howell Movie camera, projector
$200.00 Savings Bond	3rd prize	Quiet-Kool Air Conditioner
DeLuxe V-M Record Player	4th prize	Regina Electric Floor Polisher & Electrikbroom
Streamlined Roadmaster Bicycle	5th prize	Waring Blendor & Steam Iron
Sylvania Clock Radio	6th prize	Waring Mixor & Travel Iron
Case Sylvania "Blue Dot" flashbulbs.	Prizes 7 thru 15	Case Sylvania "Blue Dot" flashbulbs.
$10 check good for any photo purchase at dealer's named on entry blank	Prizes 16 thru 30	$10 check, good for any photo purchase at dealer's named on entry blank
$5 check, good for any photo purchase at dealer's named on entry blank	Prizes 31 thru 50	$5 check, good for any photo purchase at dealer's named on entry blank

IT'S EASY—IT'S FUN—TO ENTER SYLVANIA'S BLUE DOT FLASHBULB CONTEST!

Here's all you do! Get free entry form and complete rules from your corner drug or photo store—or anywhere that Sylvania Blue Dot flashbulbs are sold. Then slip a Blue Dot flashbulb into your flashgun and flash a picture saying "Folks Are Fun."

1001 picture opportunities! Whenever you hear a chuckle or a laugh, there's your chance for a picture showing "Folks Are Fun." It might be a picture of a baby . . . of people at parties, dances, or sports events. *Any* picture of *anybody* having fun could win for you! Your picture must be 2¼ x 2¼ or larger, and accompanied by a completed entry form and the flashbulb number cut from a Sylvania flashbulb sleeve. But hurry! Contest closes April 30, 1953. Flash a picture and enter it now. You can win the prize of a lifetime!

SYLVANIA

Projection Lamps

Dark Room Lamps

Superflood Lamps

Super-N-Larger Lamps

Sylvania Electric Products Inc., 1740 Broadway, New York 19, N. Y.

PHOTOLAMPS; LIGHT BULBS; RADIO TUBES; TELEVISION PICTURE TUBES; ELECTRONIC PRODUCTS; ELECTRONIC TEST EQUIPMENT; FLUORESCENT LAMPS, FIXTURES, SIGN TUBING; WIRING DEVICES; TELEVISION SETS

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
Triotar	135 mm	f/4		For Contax S; "T" coated.	150.00
Sonnar	180 mm	f/2.8		Same as above.	395.00
	300 mm	f/4		Same as above.	495.00
Tele	500 mm	f/8		Same as above.	475.00
S-Tessar Series	120 mm	f/6.3		Corrected for color separation work, photo-engraving, etc.	90.00
APO Tessar	140 mm	f/9		Same as above.	100.00
	180 mm	f/9		Same as above.	135.00
	240 mm	f/9		Same as above.	160.00
	300 mm	f/9		Same as above.	190.00
	375 mm	f/9		Same as above.	235.00
	450 mm	f/9		Same as above.	275.00
	600 mm	f/9		Same as above.	375.00
	750 mm	f/9		Same as above.	560.00
	900 mm	f/9		Same as above.	875.00
	1200mm	f/11		Same as above.	1295.00

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
Cine-Zoomatar	1½"	f/1.3	f/11	For 8 and 16-mm movie cameras; fully corrected for high resolution at any stop; iris diaphragm; calibrated in f/ and T-stops; adapters available to fit most cameras.	
	3½"	f/1.3	f/11	Same as above, but for 16-mm cameras only and available in "C" mount only.	
Wide-Angle Zoomatar	15 mm	f/1.2	f/11	Wide-angle lens for 16-mm cameras; high speed; flat field; Kodak type mount; iris diaphragm.	Upon request
Super Zoomar Varifocal		f/2.5	f/16	Similar to above; improved type; focal length from 23-mm to 104-mm; equipped with five ultra-short range adapters and filter holder; factory installation recommended.	Upon request

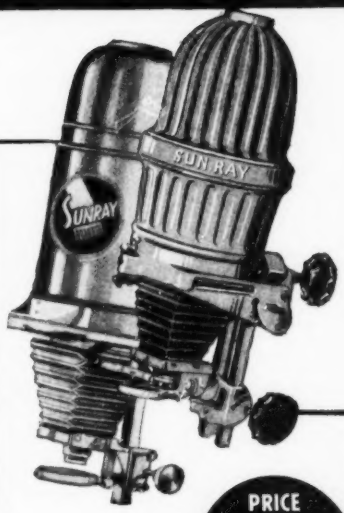
FRONT (SUPPLEMENTARY) LENSES

Manufacturer or Distributor	Type	Fits Lens Mount	Slip-on or Screw-in	Purpose	Price
A. G. PHOTO DIST.					
Ikometer	Positive	See Col. 5	See Col. 5	Close-up lens for Super Ikonta A, B, BX, and C cameras; fits over camera lens and viewfinder; permits rangefinder focusing; +1 and +2 diopters.	$19.95
Super-Hooky	Positive	See Col. 5	See Col. 5	Close-up lens for Leica cameras; fits over camera lens and viewfinder; permits rangefinder focusing; models for Elmar, 73-mm Hektor, Thambar, Summar, Summitar and Schneider Xenon lenses.	17.95
ALFA PHOTO CORP.					
Hermann Schneider Proximeter		See Col. 5	See Col. 5	Portrait attachment, copying. For 35-mm rangefinder cameras: Retina, $24.95; Kodak Signet, $19.95; V to III, $21.95; Prominent, $26.50; Leica, $30.50; Contax, $40.50.	19.95 to 40.50
CAMERA SPECIALTY					
Wirgin Telar Telephoto	Negative	See Col. 5	Screw-in	Telephoto for 8 and 16-mm cameras; 10 models for various lens mounts; 2x magnification, micrometer focusing mount.	29.50
Wirgin Cine Amplon	Positive	See Col. 5	Screw-in	Wide-angle for 8 and 16-mm cameras; 13 models for various lens mounts; 4 times normal area covered; micrometer focusing mount.	33.50
EASTMAN KODAK					
Kodak Close-up Attach.	Positive	¾"-1 ¼"	Slip-on	Close-up attachment of +¾ diopter; sizes for almost every camera.	1.63
Kodak Telek	Negative	1 ¼"-2"	Both	Telephoto attachment of —1, —2, —3, —4 diopter; Series VI, VII, diameters 1 ⅝" and 2" respectively.	3.46 and 4.32
Kodak Portra	Positive	In W mount	Slip-on	For movie cameras. Portrait attachment of +1 ¾, +3 ¾ diopter.	
Kodak Vuedar Converter 13-mm to 9-mm	Positive	.....	Screw-in	Optical converter that reduces the 13-mm f/2.7 Kodak Cine Ektanon Lens and 13-mm f/1.9 lens to 9-mm effective focal length.	24.00
Kodak Ektar Converter 25-mm to 15-mm	Positive	.....	Screw-in	An optical accessory that reduces the focal length of the Kodak Cine Ektar Lens, 25-mm f/1.4 to an effective focal length of 15-mm.	71.50
EDNALITE OPTICAL CO					
Portrait Lens	Positive	All sizes	Both	Hard coated both sides, Duraklad rimmed, supplementary lens—+1, +2, +3 diopter, series I (21.5-mm) V, VI, VII, for close-ups, portraits, micro photography, etc.	1.75 to 5.50
ELGEET OPTICAL					
Elgeet Portrait Attach.	Positive	See Col. 5	Screw-in	Portrait attach. for Elgeet ½" cine-lenses; at f/1.9, objects at 2½ feet in focus—at f/22, objects at 6 inches in focus.	2.95
Wide Angle Attach.	Positive	See Col. 5	Slip-on	Coated wide-angle attachment for all model 8-mm projectors. Projected image covers 4X area of standard lenses. Screen area ordinarily covered in 20' room, can now be covered in 10' room when using attachment, chrome finish.	On Request
ENTECO INDUSTRIES, Inc.					
Enteco Proxar Plus 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Positive	23.5-50-mm	See Col. 5	For close-up, copy, and portraiture; series sizes are metal ring mounted; Series IV, V, VI, VII, and 21.5-mm, 31.5-mm, 39-mm, 51-mm. Fit all standard mounts plus Enteco screw-in, slip-on, and set-screw adapters.	1.35 to 12.00
Enteco Distar Minus 1, 2, 3, 4	Negative	See Col. 5	See Col. 5	For telephoto photography; Series IV, V, VI and VII, and diameters 21.5-mm-51-mm; Series sizes are metal ring mounted.	1.35 to 4.50
Enteco Close-Up, for Stereo Realist	Positive	.....	Slip-on	Close-up lenses for Stereo Realist camera; special mounted in metal adapters +1 diopter; matched pairs.	5.50 per set
FOTO-RULE CO.					
Foto-Rule Zuptar	Positive	See Col. 5	Screw-in	Coated close-up attachment of +1, +2, +3 dipoter. Series V and VI.	2.35 to 2.85
KARL HEITZ, INC.					
Close-up	Positive	42-mm	Slip-on	Coated. Supplementary lens for close-up and copying, +1 diopter.	6.90
E. LEITZ, INC.					
Elpro	Positive	See Col. 5	Screw-in	Coated supplementary lens for close-up work; +1 diopter. For 50-mm Elmar lens only.	6.00
Elpik	Positive	See Col. 5	Screw-in	Same as above; +2 diopter.	6.60
Elpet	Positive	See Col. 5	Screw-in	Same as above; +3 diopter.	8.40
MANSFIELD INDUSTRIES					
Gruenex Telephoto	Negative	See Col. 5	Both	Coated supplementary lens for telephoto work with 8-mm movie cameras. Brings distance of 100 ft. down to apparent 36 feet.	18.86
				Same as above, for 16-mm movie cameras.	22.20
				Same as above, for 35-mm cameras.	22.20
				Same as above, for folding cameras up to 2 ¼x3 ¼.	22.20
				Same as above, for all 2 ¼x2 ¼ reflex cameras.	32.82
Raydex Portrait	Positive	15-150-mm	Both	Coated lens for portrait work. Available in +1, +2, and +3 diopters for all cameras.	1.25 to 1.50
Raydex Wide-angle	Positive	See Col. 5	Screw-in	Coated auxiliary wide-angle lens for all 8-mm cameras.	17.25
				Same as above. For 16-mm movie cameras.	22.20
				Same as above. For 35-mm cameras.	22.20
				Same as above. For folding cameras up to 2 ¼x3 ¼.	22.20
				Same as above. For all 2 ¼x2 ¼ reflex cameras.	32.82
MORTON COMPANY					
Magni-Far	Negative	See Col. 5	Both	Coated supplementary telephoto lens for all 35-mm cameras with non-interchangeable lens fronts. Halves the apparent distance, with no loss in speed of lens. Available with combination lens shade and filter holder, viewfinder mask, and conversion table.	29.95
Dilitar	Positive	44-105-mm	Slip-on	Coated supplementary wide-angle lens; .7X; 6-element; converts 50-mm lens to 35-mm; 80-mm to 56-mm; double coverage without loss of speed.	59.95
OPTEX CORP.	Positive	19-50.5 mm	Unmounted	Supplementary lens of +1, +2, and +3 diopter, for portrait and close-up photography. For all cameras.	1.00 to 2.00
PHOTOLIX, INC.					
Stereo-Angle Lens	Positive	All Ser. V	Both	Permits simultaneous stereo close-ups.	9.90
Angle Lens	Positive	All Ser. V	Both	Parallax corrected close-ups for all cameras.	3.95
Reflex Proxifocuses		Ser. V	Slip-on	Permits simultaneous parallax correction and close-up focusing with all cameras, to 9".	5.95
Proxifocuses 35		Ser. V	Slip-on	Same as above.	4.95
POLAROID CORP.					
Close-up Lens Kit #540	Positive	30-32-mm	Slip-on	Kit of 3 lenses; +1, +2, +3 diopter; leather case and data tape.	8.95
Close-up Lens Kit #550	Positive	38-mm	Slip-on	Kit of 3 lenses, +1, +2, +4; leather case and data tape.	14.95
PONDER & BEST					
PB Portrait	Positive	See Col. 5	See Col. 5	Complete with focusing scale. Sizes to fit PB, Kodak, and HCE lens shades and adapter rings. +1, +2, and +3 diopters.	1.55 to 2.18

Manufacturer or Distributor	Type	Fits Lens Mount	Slip-on or Screw-in	Purpose	Price
SAWYER'S					
View-Master Stereoscopic Close-up Attachment	Positive	.....	Slip-on	Two models: 1.36-inch with Depth of Field of 25 to 50-in; 2.24-inch with depth of field of 20" to 30". For use with Master Personal stereo camera.	.....
SPIRATONE					
Spiratone Portrait	Positive	See Col. 5	Both	Supplementary portrait lens of +1, +2, and +3 diopter. Available in 21.5 mm, and sizes to fit standard Series V, Series VI, and Series VII adapter rings.	0.75 to 2.00
Spiratone Telephoto	Negative	20-42-mm	Both	Coated supplementary telephoto lens for 35-mm and 2 ¼x2 ¼ reflex cameras. Also Polaroid Land. Some models have interchangeable Series V or VI adapters.	16.95
Spiratone Wide-angle	Positive	See Col. 5	Both	Coated supplementary wide-angle lens for 35-mm and 2 ¼x2 ¼ reflex cameras. Also Polaroid Land. Some models have interchangeable Series V or VI adapters.	16.95
Spiratone Minus	Negative	See Col. 5	Both	Supplementary minus lenses of —1, —2, —3, and —4 diopters; available to fit V, VI and VII adapter rings.	1.00 to 2.00
TENPLUS	Positive	See Col. 5	Unmounted	Supplementary lens of +10 diopter, for extreme close-up photography. For use with Series V and Series VI adapter rings.	8.00
TIFFEN MFG. CO.					
Tiffen Portrait	Positive	16.5-85 mm	Both	For portrait work; also available with set-screw mount.	1.25 to 3.50
Photar	Positive	See Col. 5	See Col. 5	Coated or non-coated proxar-type portrait lens. Mounted in metal ring for use with adapters of 21.5-mm to Series VII size.	1.35 to 4.50

SUN RAY

America's Best Enlarger Buy



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LAMPS FOR PICTURE TAKING

Manufacturer and Lamp Designation	Wattage or Light Output	Mean Color Temp. (Deg. Kelvin)	Average Life at 115 V. in Hrs.	Rated Lumens at 115 V.	Base** and Burning Position*	Special Characteristics	List Price Each (Less Tax)
AMPLEX							
Photo Reflector Lamps							
R-30	300	3,400	4	.....	Medium A	Medium beam, silvered inside.	1.25
RF1-2	500	3,400	6	4,500	Medium A		1.15
RSP-2	500	3,400	6	.....	Medium A		1.30
Photoflood Lamps							
No. 1	250	3,400	3	8,650	Medium A	Inside frost.	.18
No. 2	500	3,400	6	17,000	Medium A	Inside frost.	.33
No. 4	1,000	3,400	10	33,500	Mogul A	Inside frost.	1.20
No. B1	250	4,800	3	5,600	Medium A	Inside frost.	.30
No. B2	500	4,800	6	11,000	Medium A	Inside frost.	.60
No. B4	1,000	4,800	10	21,800	Mogul A	Inside frost.	1.75
General Electric							
G-E Photofloods							
No. 1	250	3,400	3	8,650	Medium A	Equiv. to 750 watts standard lighting.	.18
No. 2	500	3,400	6	17,000	Medium A	Equiv. to 1500 watts standard lighting.	.33
No. B1	250	4,800 (d)	3	.....	Medium A	Daylight blue, for color photography.	.30
No. B2	500	4,800 (d)	6	.....	Medium A	Same.	.60
No. RFL 2	500	3,400	6	(c)	Medium A	Flood, built-in reflector; 60° controlled beam.	1.15
No. RSP 2	500	3,400	6	50,000 (a)	Medium A	Spot, built-in reflector; 20° beam.	1.30
Medium Beam 375w	375	3,400	4	.....	Medium A	Medium beam—built-in reflector; 40° beam.	1.25
3200 K Lamps							
A-23	250	3,200	20	.....	Medium A	For color photography with film color-balanced for 3200 K.	.40
PS-25	500	3,200	60	.....	Medium A		.70
T-20	500	3,200	30	.....	Medium C		2.95
T-20	500	3,200	30	.....	Med. Pf. C		3.20
T-20	500	3,200	35	.....	Med. Bi. C		4.25
Spotlight Lamps							
T-10	200	.....	.....	.....	Bay. Cd.	Clear.	2.90
G-30	400	.....	.....	.....	Medium	Clear; also available in photo blue.	1.90
G-30	400	.....	.....	.....	Med. Pf.	Clear; also available in photo blue.	2.15
Miscel. Lamps							
T-20	500	.....	.....	.....	Medium	Small lamp with powerful light. Recommended for home portraiture, etc.	2.75
T-20	500	.....	.....	.....	Med. Pf.		2.75
PS-40	500	.....	.....	.....	Mogul	Clear. For general lighting.	.95
Radiant Lamp Corp.							
Spotlight Lamps				Rated Lumens			
A21	100	.....	200	1,400	Medium B	Light center length, 3"; over-all length, 4 7/16".	1.05
G16½	100	.....	200	1,600	Bay. Cd. C	Light center length, 1⅜", over-all length, 3".	1.00
G30	250	.....	200	4,400	Medium D	Light center length, 3"; over-all length, 5⅛".	1.40
G30	250	.....	200	4,400	Med. Pf. D	Light center length, 2 5/16"; over-all length, 5⅜".	1.65
T12	250	.....	200	4,400	Med. P.S. B	Light center length, 3½"; over-all length, 5¾".	4.50
T20	250	.....	200	4,400	Med. Pf. C	Light center length, 2 5/16"; over-all length, 5¾".	4.00
T20	250	.....	200	4,400	Medium C	Light center length, 3"; over-all length, 5½".	3.35
G30	400	.....	200	8,000	Medium D	Light center length, 3"; over-all length, 5⅛".	1.90
G30	400	.....	200	8,000	Med. Pf. D	Light center length, 2 5/16"; over-all length, 5⅜".	2.15
G40	500	.....	200	10,200	Mogul D	Light center length, 4¼"; over-all length, 7 1/16".	2.80
T12	500	.....	200	10,250	Med. P.S. B	Light center length, 3½"; over-all length, 5¾".	6.50
T20	500	.....	200	10,250	Med. Pf. C	Light center length, 2 5/16"; over-all length, 5¾".	3.40
T20	500	.....	500	9,500	Med. Pf. C	Light center length, 2 5/16"; over-all length, 5¾".	3.50
T14	500	.....	200	.....	Med. Bip. D	Light center length 4"; over-all length, 6⅜".	5.75
T12	750	.....	200	15,750	Med. P.S. D	Light center length 3½"; over-all length, 5¾".	7.00
T20	750	.....	500	15,450	Med. Pf. C	Light center length, 2 5/16"; over-all length, 5¾".	5.00
Floodlamps							
G30	250	.....	800	3,750	Medium D	Light center length, 3"; over-all length, 5⅛".	1.40
G30	250	.....	800	3,750	Med. Pf. D	Light center length, 2 5/16"; over-all length, 5⅜".	1.65
G30	400	.....	800	6,600	Medium D	Light center length, 3"; over-all length, 5⅛".	2.15
G30	400	.....	800	6,600	Med. Pf. D	Light center length, 2 5/16"; over-all length, 5⅜".	2.90
G40	500	.....	800	8,800	Mogul D	Light center length, 4¼"; over-all length, 7 1/16".	2.55
T20	500	.....	800	8,500	Med. Pf. C	Light center length, 2 5/16"; over-all length, 5¾".	3.40
T12	500	.....	800	8,700	Med. P.S. B	Light center length, 3½"; over-all length, 5¾".	6.50
Solar Electric Corp.							
Solar Photofloods							
No. 1	250	3,400	3	8,650	Medium A	High intensity light source; use with reflector.	.18
No. 2	500	3,400	6	17,000	Medium A	Same, with double intensity of No. 1.	.33
No. RFL2	500	3,400	6	4,500	Medium A	Flood; built-in reflector, 30° beam.	1.15
No. 375 W Med. Beam	375	3,400	4	.....	Medium A	40° Med. beam; built-in reflector.	1.25
Sylvania Electric							
Sylvania Superflood							
No. 1	250	3,400	3	8,650	Medium A	Equiv. to 750 watts standard lighting.	.18
No. 2	500	3,400	6	17,000	Medium A	Equiv. to 1500 watts standard lighting.	.33
No. 4	1,000	3,400	10	33,500	Mogul A	Equiv. to 2500 watts standard lighting.	1.20
No. R-32	375	3,200	15	9,600(a)	Medium A	Reflector flood, 25° beam, long life.	1.85
No. R-34	375	3,400	4	10,400(a)	Medium A	Reflector flood, 25° beam, greater beam output.	1.25
No. B1	250	4,800 (d)	3	5,600	Medium A	Made of daylight blue filter glass; for use with day-light-type color film and black-and-white.	.30
No. B2	500	4,800 (d)	6	11,000	Medium A		.60
No. B4	1,000	4,800	10	21,800	Mogul A	Same note as B1 and B2.	1.75
Westinghouse							
W Photoflood Lamps							
No. 1	250	3,400	3	8,650	Medium A	High intensity light source, use with a reflector.	.18
No. 2	500	3,400	6	17,000	Medium A	Same, with double the intensity of No. 1.	.33
No. B1	250	4,800	3	5,600	Medium A	Blue bulb fill-in light to supplement daylight.	.30
No. B2	500	4,800	6	11,000	Medium A	Same, double the intensity of the B1.	.60
No. 300 R 30	300	3,400	4	.....	Medium A	New small size medium beam.	1.25
No. 375 34/R4	375	3,400	4	.....	Medium A	Compact flood, built-in reflector 40° medium beam.	1.25
No. RFL2	500	3,400	6	4,500	Medium A	Compact flood, built-in reflector 60° controlled beam.	1.15
No. RSP2	500	3,400	6	(a)	Medium A	Compact spot, built-in reflector 20° controlled beam.	1.30
3200K Lamps							
PS25	500	3,200	60	.....	Medium A	For color photography with color film balanced for 3200 K.	.70
T20	500	3,200	30	.....	Medium C		2.95
T20	500	3,200	30	.....	Med. Pf. C		3.20
T20	500	3,200	35	.....	Med. Bi. C		4.25

NOTES **Bases are screw type unless otherwise indicated. Abbreviations are as follows: Bi.—Bipost; Bay.—Bayonet; Cd.—Candelabra; Pf.—Prefocus; P.S.—Prefocus Skirted.

*Burning Positions:
A. Will burn in any position.
B. Base up burning.
C. Base down burning.
D. Any position from vertical base down to horizontal.
E. Any position except within 45° of vertical base up.

a. Approximate Beam Candlepower.
b. Not designed for life, but for a mean color temperature of 3200 Kelvin.
c. Light concentrated in photo-effective zone. Equivalent to a No. 2 Photoflood in good reflector.
d. Intended to supplement daylight.

PRINTING PAPERS

Manufacturer's safelight and developing recommendations enclosed with each package. * Regular sizes and packing. † Rolls. A—10x10" LW—Light weight. SW—Single weight. DW—Double weight. B—7x8⅝"

PAPER	TYPE	USE	SPEED	SIZES	CONTRASTS	SURFACES	COLORS	REMARKS
ANSCO								
CONVIRA	Chloride	Contact	Normal	*†	6	2	1	S&DW. Glossy, velvet; cold black tones.
CYKON	Chloride	Contact	Normal	*	3	2	1	S&DW. For portraits; commercial warm tone prints; suitable for gold tone.
CYKORA	Chl-Br.	Enlarg.	Fast	*†	4	3	1	S&DW. For portraits and commercial illustration.
PROOF	P.O.P.	Contact	.....	*	1	1	1	SW. For proofs. Print by daylight or arc.
SPEEDEX	Chloride	.....	Rapid	*†	5	1	1	SW. Glossy, for optical printers; blue-black tones.
BROVIRA	Bromide	Enlarg.	Fast	*†	4	3	1	S&DW. For pictorial, reproduction; good latitude, rich black tones.
PROJECTION PROOF	Chl-Br.	Enlarg.	Fast	*†	1	5	1	SW. D.O.P.; rough surface minimizes retouching.
INDIATONE	Chl-Br.	Enlarg.	Normal	*†	1	4	1	DW. Portrait, warm toned, good for sepia, gold tone.
SCONA REFLEX	Reflex	Copy	.....	*†	2	1	1	SW. For reflex copies; can use in subdued light.
DEVOLITE								
DEVOLITE	Chloride	Contact	Slow	*†	3	1	1	SW. Darkroom not necessary; cold tones; glossy.
DEVODARK	Chloride	Contact	Normal	*†	6	2	1	S&DW. Warm tone.
DEVOJET	Chl-Br.	Enlarg.	Normal	*†	3	4	1	LW, S&DW, wide latitude for professional work.
DU PONT								
APEX	Chloride	Contact	Normal	*†	6	7	2	S&DW. Wide latitude in exposure and development; gives full scale value of negative.
VELOUR BLACK	Chl-Br.	Enlarg.	Normal	*†	4	13	2	S&DW. For portrait, pictorial, commercial; full scale; surfaces for every type of work.
WARMTONE TYPE 9034	Chl-Br.	Enlarg.	Normal	*	1	8	2	DW. Warm brown tone; rich scale of gradation.
VARIGAM	Chl-Br.	Enlarg.	Normal	*†	Variable	10	1	S&DW. With filters, gives any degree of contrast from extremely soft to very hard.
HIGH SPEED "VARIGAM"	Chl-Br.	Enlarg.	Normal	*†	Variable	7	1	S&DW. With filters, gives any degree of contrast from extremely soft to very hard.
IVORA	Chl-Br.	Enlarg.	Normal	*	1	1	1	On white film base; for miniatures and coloring.
ADLUX	Chl-Br.	Enlarg.	Normal	*	1	1	1	Film; coated both sides; for rear illumination, etc.
CANVAS	Chl-Br.	Enlarg.	Normal	*†	1	.....	1	Fine texture fabric with Velour Black coating; has same quality as paper; takes oil colors.
BLACK & WHITE PROOF	Chl-Br.	Enlarg.	Normal	*†	2	1	1	SW only. For proof printing, murals, etc.
EASTMAN								
AD-TYPE A	Chloride	Contact	Normal	*†	6	1	1	LW. Full scale; cold tones; folds without cracking.
ARISTO	Chloride	Contact	Normal	*	3	3	2	DW. Full scale; for commercial, illustrative and portrait work.
ATHENA	Chloride	Contact	Normal	*	3	3	1	DW. For portraits; warming brilliance and fine gradation.
AZO	Chloride	Contact	Normal	*†	6	4	1	S&DW. For amateur, portrait, and commercial work.
ILLUSTRATOR'S AZO	Chloride	Contact	Normal	*†	5	4	1	S&DW. Full scale, chiefly for illustrative work.
RESISTO	Chloride	Contact	Normal	*	4	1	1	SW. Water-resistant base for rapid processing.
VELITE	Chloride	Contact	Slow	*	1	1	1	SW. Can be handled in normal room light; 3 sizes.
VELOX	Chloride	Contact	Normal	*†	6	1	1	SW. Amateur and photofinishing, blue-black tones.
STUDIO PROOF	P.O.P.	Contact	Slow	*	1	2	1	SW. For proofs. Print by daylight or arc.
ILLUSTRATOR'S SPECIAL	Chl-Br.	Enlarg.	Normal	*†	1	2	1	S&DW. Pure white stock; full scale, rich tones.
KODABROMIDE	Chl-Br.	Enlarg.	Fast	*†	5	8	2	S&DW. Rich black tones; full-scale emulsion; for commercial, pictorial, news work.
MEDALIST	Chl-Br.	Enlarg.	Fast	*†	4	6	2	L&S&DW. Rich black tones; all-purpose enlarging paper for commercial, pictorial and illustrative photography.
MURAL	Chl-Br.	Enlarg.	Fast	*†	3	1	1	Med. W. Tweed surface; especially designed for production of photographic murals.
EKTALURE	Chl-Br.	Enlarg.	Fast	*†	1	1	1	DW. Fast, warm tones; portrait paper with surface designed for hand-coloring with oils.
OPAL	Chl-Br.	Enlarg.	Normal	*†	1	13	2	DW. For portraits, exhibition prints; warm tones, full scale; wide variety of surfaces.
PLATINO	Chl-Br.	Enlarg.	Fast	*†	3	3	2	S&DW. For higher speed printing; full scale.
PORTRAIT PROOF	Chl-Br.	Enlarg.	Fast	*†	1	1	1	SW. Rough, D.O.P. for proofs, murals, etc.
RESISTO RAPID	Chl-Br.	Enlarg.	Fast	*†	4	1	1	SW. Water resistant base for rapid processing.
VELOX RAPID	Chloride	Enlarg.	Slow	*†	5	1	1	SW. For optical printers; full scale, rich tones.
CARBRO PAPER	Chl-Br.	Enlarg.	Fast	*†	1	1	1	SW. Special paper for making carbro prints.
SUPER SPEED DIR. POS.	Bromide	Camera	Fast	*†	1	1	1	SW. Reversal. Positives by exposure in camera.
TRANSLITE	Chl-Br.	Enlarg.	Fast	*†	1	1	1	Supplied as film and paper; coated both sides; for rear illumination, enlarged negatives, etc.
EKTACOLOR BW	Chl-Br.	Enlarg.	Normal	*	1	1	1	SW. For making proofs or finished black-and-white prints from Ektacolor negatives.
GEVAERT								
NOVAGAS	Chloride	Contact	Normal	*†	5	1	1	S&DW. Wide latitude in printing. Glossy surface.
ARTEX	Chl-Br.	Enlarg.	Normal	*†	3	5	1	DW. Warm tones for portrait work. Rough surface.
LARJEX	Chloride	Con-Enl.	Fast	*†	5	1	1	SW. For oversize prints, optical printers; glossy.
P.O.P. PROOF	P.O.P.	Contact	Normal	*	1	1	1	SW. For proofs. Print by daylight or arc, glossy.
GEVALUXE VELOURS	Bromide	Enlarg.	Normal	*	1	1	1	DW. For portrait, pictorial; warm tones; velour surface.
NOVABROM	Bromide	Enlarg.	Fast	*†	5	3	1	S&DW. In 50-inch rolls for photo murals.
MULTI-CONTRAST	Chloride	Enlarg.	Fast	*†	1	1	1	SW. Designed for use with strip printers and optical printers.
PROJECTION PROOF	Chl-Br.	Con-Enl.	Normal	*†	1	1	1	SW. Cold tones; portraits & commercial work.
ARTONA	Chloride	Contact	Slow	*	1	1	1	DW. Warm tones; for portraits.
TONEX	Chl-Br.	Con-Enl.	Slow	*	2	3	1	DW. Warm tones; for portraits, designed for toning work.
NOVAREX	Chloride	Contact	Slow	*	1	3	1	DW. Warm tones; for portraits and greeting cards.
GEVAERT DIAVERSAL (Dist., Revere Camera Co.)	Reversal-transfer	Con-Enl.	Fast	*	1	1	1	For making direct positive prints by chemical reversal of emulsion; recommended for making prints from positive color transparencies.
GRANT								
DIREX	Direct Pos.	Camera	Fast	*†	1	1	1	For making direct positive prints by chemical reversal of emulsion. Used in the camera.
HALOID								
HALO	Chloride	Contact	Normal	*†	4	1	1	S&DW. Glossy; cold tones, full scale of gradation.
INDUSTRO	Chloride	Contact	Normal	*†	4	3	1	S&DW. Wide latitude; warm tones, portrait, commercial.
HALOBROME	Chl-Br.	Enlarg.	Fast	*†	4	3	1	S&DW. For commercial photography, photofinishing.
PORTRAYA	Chl-Br.	Enlarg.	Normal	*†	1	1	1	DW. For portrait enlargements; warm tones, wide latitude.
PORTRAYA PROJECTION PROOF	Chl-Br.	Enlarg.	Medium	*†	1	1	1	SW. For photo murals and portrait proofs.
ILFORD (Alco Photo Supply Co.)								
COMMERCIAL	Bromide	Enlarg.	Fast	*†	4	4	2	S&DW. For commercial and portrait work.
DE LUXE	Bromide	Carbro	Fast	*†	1	1	1	Long range; cold tones.
PLASTIKA	Chl-Br.	Enlarg.	Fast	*†	4	4	2	S&DW. Wide latitude; no blocking in shadows; warm blacks.
KILBORN								
COLOMA	Bromide	Enlarg.	Fast	*†	4	3	1	S&DW. For commercial and portrait work; good gradation of tones from black to white.
COMMERCIAL	Chloride	Contact	Normal	*†	4	2	1	S&DW. Full scale; for photo finishing and commercial use.
RAPIDCOPY	Bromide	Enlarg.	Fast	*†	1	1	1	Special weights; non-ortho paper designed for microfilm use.
VERDITONE	Chl-Br.	Enlarg.	Normal	*†	1	3	1	DW. Warm tone; for portraits and making photo murals by projection.
WEIMET								
	Bromide	Enlarg.	Fast	A	1	1	1	SW. Fast paper for general work.
	Chloride	Con-Enl.	Fast	A	4	1	1	SW. For general work.
	Bromide	Enlarg.	Normal	B	1	1	1	SW. For portraits and general work.

LIGHT FILTERS

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
ANSCO					
Ansco Color Film Filters	19-51mm	.....	Round; gelatin between glass; mounted; Conversion No. 10 for exposing daylight-type Ansco Color film under 3200K; Conversion No. 11 for exposing tungsten-type Ansco Color film under daylight. Ultra violet absorbing UV16 and UV17.	2.10-4.00	
Glass Mounted Filters	20.3-23.3 mm	Slip-on	Round; gelatin between glass; Colors: Yellow, light, medium, dark; green, and red.	2.25-2.50	
Color Film Filter Foils	2x2"-4x4" 3x4", 4x5", 5x7"	....	Color Nos. 43, 44, 45, ultra violet filters UV15, UV16, UV17, and conversion filters No. 10 and No. 11 are available in the lens grade. Color compensating filters; yellow, Nos. 23, 24, 25, 26; Magenta, Nos. 33, 34, 35; Cyan, Nos. 43, 44, 45 and UV-16P available in the printing grade.		$ 66-2.62 .30-.75
AREL, INC.					
Kent Filter Kits	19-35 mm	Screw-in	Round; optical glass; lens shade combination; for various Eastman, Bell & Howell, Revere, and Keystone movie cameras; Argus and Mercury still cameras. Colors: yellow, green, red, haze. Type A, Chrome Flash, and blue. Kit has 6 filters, and lens shade.	5.95-9.95	
BELL & HOWELL CO.					
B & H	12.5-37.5 mm	Screw-in	Round; optical glass; for B&H lenses: 12 ½MM f/3.5 Anate, 12 ½mm f/2.5 Mytal, 12 ½mm f/2.5 Anate, 12 ½mm f/2.5 Anart, 0.5" f/2.8 Anate, 0.5" f/2.5 Comat, 0.5" f/1.9 Super Comat, 17mm f/2.7 Ansix, 0.7" f/2.5 Super Comat, 1" f/3.5 TTH, 1" f/2.7 TTH, 1" f/2.7 Ansix, 1" f/2.5 Ansix, 1" f/2.5 Comat, 1" f/1.9 Datal, 1" f/1.9 Lumax, 1" f/1.9 (T-2.1) Super Comat, 1" f/1.5 Kinic, 1.5" f/3.5 Telate, 1.5" f/3.5 Comat. Colors: Yellow, Kodachrome Type A, Kodachrome Haze.	5.95-6.95	
LOU BERTZ					
Addacolor	2x2". 2 ¼x2 ¼"	See Col. 4	Gelatin squares added as a permanent part of glass or readymount mount for transparencies. Colors: Yellow, Cyan, Magenta, Red, Green, Blue. Used as color correcting filters for color slides AFTER processing. Packed in sets of 24, four each of six colors.		.65-.95
BURLEIGH BROOKS CO.					
Optochrom	19-58 mm	Slip-on	Round; dyed optical glass. Colors: Yellow, extra light, light, medium, dark; Yellow-Green, light, medium; Ultra Violet; Blue; Red; Reform (sky, expiration).	2.40-	
Optochrom Filter Sets	25-42 mm	.....	Filters in filter holder, slip-on, or special mounts. Set A (one each) Yellow, light, medium; Ultra Violet. Set B (one each) Yellow/Green, light, medium; Blue. Set C (one each) Yellow, medium, Yellow/Green, light; Red. Prices on request.	11.25	
CURTIS LABORATORIES, INC.					
Curtis Color Balance	19-52 mm 2x2"-3x3"	.....	Round and square; gelatin between optical glass; for sensitometric correction to color film where needed; not designed for use as color compensating filters.		5.00-9.00
DEJUR-AMSCO CORP.					
DeJur-Wollensak	13-38 mm	Screw-in	Round; optical glass; for Wollensak lenses on DeJur cine cameras. Colors: Haze; Kodachrome Type A; Yellow, 2X, Red, 6X. Mounted in built-in lens shade.	3.45	2.80
	9 mm	Screw-in	Same as above, for 9 mm wide-angle lenses.	4.05-4.60	3.95-4.50
E. I. DU PONT DE NEMOURS					
"Varigam"	2x2"	Plastic	For contrast control of "Varigam" paper; optical plastic; 10 colors ranging from yellow through yellow-blue mixtures to blue. Set 5A (1, 3, 5, 7, 10); Set 5B (2, 4, 6, 8, 9) and Set 10C (all); sets include special plastic universal filter holder.	Single 1.00 4.40 7.60	
EAGLE PHOTO SUPPLY					
Eagle Ray	1 ⅛"-4 ½"	Slip-on	Round; medium rapid filter; requires 3 times normal exposure; corrected to admit all the bright visual colors and the more chemically active colors.	1.65-8.55	
Royal Ray	1 5/16"-4 ½"	Slip-on	As above; requires 8 times increase of exposure.	1.65-8.55	
Royal Foreground Ray Style A	⅞"-4 ½"	Slip-on	Round; graduated from strong Orange-Yellow to transparent; for use as Sky filter and also in photographing objects more strongly lit on one side than on the other.	2.00-8.00	
Style B	1 5/16"-3"	Slip-on	As above; mounted in sliding oblong frame so as to bring any desired depth of color in front of the lens.	1.50-3.75	
EASTMAN KODAK CO.					
Wratten Light Filters	⅝"-5"	Slip-on, screw-in, or unmounted	Lacquered gelatin, gelatin cemented in "B" glass or in "A" glass, round or square. Over 100 types, including: Yellow, K2, G; Yellow-Green, X1; Green, B; Blue, C5; Red, A; Color-Separation; Neutral Density; etc.		
Kodak Skylight Filter (Wratten No. 1A)	⅝"-3 ¼" 2x2", 3x3"	Slip-on, screw-in, or unmounted	Used with daylight-type color films for improved rendering in open shade or other bluish daylight conditions.		
Kodak Light Balancing Filters (Wratten No. 81-81G, 82-82C)	1 ⅝"-2" 2x2", 3x3"	Slip-on or unmounted	Eight Yellowish (No. 81 series) and 4 Bluish (No. 82 series) for exposing artificial-light color films. Effective color temperature lowered or raised, respectively, in steps of about 100 K.		
Kodak Color Compensating Filters	1 ⅝"-2" 2x2", 3x3"	Slip on or unmounted	Used for color balance and light source correction with color films. Yellow, Magenta, Cyan, Red, Green, and Blue series of six filters each, densities .05, .10, .20, .30, .40, and .50.		
EDNALITE OPTICAL CO., INC.					
Chess-United	All still & movie	See Col. 4	Round; optical glass; chrome finish mount; available for slip-on, screw-in, and special mounts; lens shade combination. Colors: Yellow, light, medium, dark; Yellow-Orange; Red, light, medium, dark; dark Infra Red; Chrome Skylight; Chrome A; ChromeBlue; ChromeFlash; Green, light, medium; Neutral, light, medium.	2.55-3.75	1.50-3.10
Chess-United Educational Filter Kits	See Col. 4	See Col. 4	Contains lens shade, 2-compartment case, light yellow, and light green filters, —1 diopter portrait lens. For most popular cameras.	4.95	
EdnaLite	All still & movie	See Col. 4	Round; optical glass coated on both sides; series filters mounted in shock-proof rim; available for slip-on, screw-in, and special mounts for Stereo Realist and Contessa cameras; lens shade combination. Same colors available as the Chess-United filters, also UV16, UV17, Conversion No. 10 and No. 11, CTY 81, 81A, 81B, CTB 82, 82A, 82B, 82C.		1.75-5.50
EdnaLite Cine Filter Turret	Movie cameras	See Col. 4	Combination 5-position filter turret and lens shade; round; coated optical glass. Colors: ChromeA; ChromeBlue; ChromaHaze; Yellow, medium; Red, medium.	13.50	
EdnaLite Series Size Filters	All still and movie	See Col. 4	Round, solid, optical glass, DuraKlad rimmed, hard coated both sides, Series I (21.5) V, VI, VII, available for slip on or screw-in mounts, lens shade combination. Colors: Yellow, Light, Medium, Dark; Orange; Red, Light, Medium, Dark; Infrared; Green, Light, Medium; Chrome Haze (Skylight); Chrome Conversion; Chrome Blue Conversion; Chrome Flash; UV 15; UV16, UV 17; Conversion No. 10; Conversion No. 11; CTY 81; CTY 81A; CTY 81B; CTY 81C; CTY 81D; CTY 81EF; CTB 82; CTB 82A; CTB 82B; CTB 82C; Neutral, Light, Medium.	1.75-5.50	
EdnaLite Mounted Filters	See Col. 4	See Col. 4	Round, solid optical glass, hard coated both sides in special mounts to fit Stereo Realist. In screw-on mount to fit Contessa; in screw-in mounts to fit Retina II, IIA and Retinette (can be left in place with camera closed). In black and white and color kits.	Various	
ENTECO INDUSTRIES, INC.					
Enteco Mounted Filters	16-76 mm	See Col. 4	Round; optical glass; dye between "B" glass or in "A" glass; dural mounted in Series sizes IV, V, VI, VII, VIII, IX. Fit in all standard mounts plus Enteco screw-in, slip-on and set-screw adapters. Colors: Yellow, light, medium; Red; Green, light, medium; Orange; Haze; Skylight; Photoflood; Infrared; Neutral Density 2X, 4X; 85B; Ultra Violet 2B; Light Balancing No. 81, No. 81A, No. 81B, No. 81C, No. 81D, No. 81EF; Polarizing; Type A; Conversion (85B), 10, 11, 12; UV15, UV16, UV17.	1.60-9.75	

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
Enteco Unmounted Filters	16-84 mm	See Col. 4	Round; optical glass; mounted in sizes from 16 mm to 84 mm in same colors and to fit same mounts as above.	1.35-8.00	
Enteco Filter Kits	See Col. 4	See Col. 4	Kits of three filters, for black-and-white or color. In sizes for Series IV, V, VI.	3.50-9.50	
Enteco Tri-Filter Kit for Stereo Realist	See Col. 4	See Col. 4	Three pairs of matched filters (Type A, Skylight, 81C) for Stereo Realist Camera, in leather wallet.	16.95	
Enteco Mono-Filter Kit for Stereo Realist	See Col. 4	See Col. 5	One matched set of any color or type for Stereo Rerlist Camera in suede type compartment pouch.	5.50	
Enteco Tri-Filter Kit for Revere "33" Stereo Camera	See Col. 4	See Col. 4	Three pairs of matched filters (Type A, Skylight, 81C) for Revere "33" Stereo Camera, in leather wallet.	11.00	
Enteco Mono-Filter Kit for Revere Stereo Camera	See Col. 4	See Col. 4	One matched set of any color in suede type compartment pouch.	3.50	
GALLINGER BROS., INC. G. B. Filters	31.5-19 mm	.....	Round and square; optical glass; round filters mounted in rings. Colors: Yellow, light, medium; Red; Green; Orange; Haze; Blue. Available in leather-cased set of 4.	1.25-1.50	.80-2.00
GENERAL PHOTO SUPPLY CO. Photax	1 3/16"-1 5/8"	See Col. 4	Round; optical glass; metal bound. Colors: Yellow, light, med., med. dark, dark; Red; Green; Orange; Type A; Blue; Haze; ChromeFlash.	1.75-2.00	
C. P. GOERZ AMERICAN OPTICAL Panortho	21-61 mm	Slip-on	Round; optical glass; lens shade combination; mounted filters up to 42mm; unmounted up to 61mm; any color set acceptable for selection. Colors: Pale Yellow, U.V.; Yellow, POI, POII; Green, POI, POII, Blue (compensating); Red (contrast); Orange. Desired combination obtained by stacking the individual cells.	2.50-3.75	1.50-7.50
HARRISON AND HARRISON Duraline Black & White	19-52 mm	.....	Optical glass laminated together with cementing materials which carry the color; metal bound; in all standard sizes.		1.70-4.65
Neutral Density Filters	19-52 mm	.....	In standard transmissions from 55% to 1% of light.		2.10-4.65
Diffusion Filters	19-52 mm	.....	In 5 gradations of soft focus from distant to head close-ups.		3.14-6.27
Varigam Filters (Glass)	19-52 mm	.....	Laminated as above in 10 gradations of print contrast, from V-1 to V-10.		2.25-4.65
Light Corrector Discs (for Color) Coralites and Blues	19-52 mm	.....	Laminated as above in 11 Coralite steps and 11 Blue steps for use in raising or lowering color temperature of light to balance with color temperature of color film, also for daylight use of indoor film and vice versa.		2.25-4.65
Film Convertor Filters	19-52 mm	.....	For use where color film or processing does not balance to a rated color temperature; available in 5 gradations of Yellow, Magenta and Cyan.		2.25-4.65
Graduate Filters	19-52 mm	.....	For control of sky over foreground; combining any 2 colors or any color to clear or neutral density to clear for color or black-and-white film. (All filters listed in all standard round sizes and 2" and 3" squares.)		3.14-6.27
KARL HEITZ Inc. Black and White and Color	42-52mm	Slip-on	Coated; round; optical glass dyed in the mass, metal mount, designed for ALPA camera, and its interchangeable lenses. Colors: Yellow, Light, Medium, Dark; Orange, Medium; Green, Light, Medium; Red, Light, Medium, Dark; Ultra Violet, Bluish; Yellowish, Greenish.	6.90-8.85	
	42-52mm	Slip-on	Polarizing.	18.90-19.95	
	42-52mm	Slip-on	Diffusion disks; 2 gradations: weak.	6.90-8.85	
KIN-O-LUX, INC. Marks Polarator	19-42 mm	Screw-in	Neutral polar screen to eliminate unwanted glare and reflection; lens shade combination.	5.95-6.95	
	15 mm	Slip-on	Same as above; for movie cameras; lens shade combination.	3.75	
E. LEITZ, INC. Leica	34 mm	Slip-on	Round; optical glass; for 28 mm, 35 mm, and 50-mm Hektor, Elmar, and Summar lenses; all 90 mm, 127, and 135-mm lenses. Colors: Yellow 1, 2; Green 1; Orange-Red; Infra-Red 1, 2, 3; Kodachrome Skylight; Kodachrome Type A; Kodachrome Photoflood; and Flash.	5.55-7.44	
	50 mm	Screw-in	Same as above, for Summitar 50mm lens only. Filters of other diameters available for Summerit 50mm, Summarex 85mm., Tely + 200 and 400mm lenses. Polarizing filters available for some models.	5.10-6.66	
MANSFIELD INDUSTRIES Raydex	17-150 mm	.....	Round; optical glass; lens shade combination. Colors: Yellow, light, medium, dark; Red; Green; Orange, light, medium, dark; Type A conversion; Haze; Kod. Blue; Chrome Flash. Available in kits for various miniature and movie cameras.	1.75-2.75	.85-2.25
OPTEX CORP. Optex	27-55 mm	.....	Optical glass; beveled. Colors: Yellow, light, medium, dark; Green, light, medium; Orange; Red, light, medium; U.V. Sets of above and sets for tricolor work available. Prices on request.	1.00-3.50	
PHOTO RESEARCH CORP. Spectra CT (color temperature) and GC (green correction).	See Col. 4	See Col. 4	Color correcting filters; gelatin between optical glass; coated. Colors: Turquoise, 6 filters from T1 to T6; Salmon, 6 filters from S1 to S6; Green, 3 filters from G1 to G3; Magenta, 3 filters from M1 to M3. Mounted in metal anodized in matching colors. From Ser. V to Ser. VIII, and 2x2 and 3x3 inch squares. Complete set of 18 filters.	2.75 8.00	
POLAROID CORP. Filter Kit #541	30-32 mm	Slip-on	Set of 3 filters specially adapted to Polaroid Land camera, and others of same diameter lens mount, satin aluminum finish. Colors: Yellow; neutral density; polarizing filter.		5.95
	38mm	Slip-on	Yellow filter and polarizing filter, plus lens hood—each in snap-on mount. Complete with leather case.		
Filter and Lens Shade Kit #551			For Pathfinder Camera.		10.95
PONDER & BEST PB Filters	19-50.5 mm	.....	Round; optical glass; polished edges; lens shade combination; fits Series V, VI, VII, adapter rings. Colors: Yellow; Orange; Red; Green; Haze.		1.95-4.15
PB Conversion Filters	19-50.5 mm	.....	Round; gelatin between glass; lens shade combination; same size as above. C4 (Kodachrome Type A to Daylight); UV2 (Kodachrome Type B and Ansco Color Tungsten with flash), C5 (Tungsten to Daylight); B2 (for Flash), B4 (for Flood).		1.75-2.95
PB Filter Kits	See Col. 4	.....	Ten kits available for Argus A, C-2, C-3; Argoflex; Kodak Bantam, Kodak 35; Mercury II; Leica; Perfex; kit includes lens shade and filter holder; Yellow, medium; Red, medium; Haze; Type A conversion.	8.95	
PB Movie Kits	.....	.....	Ten kits available for various 8 and 16mm cameras; kit includes lens shade, filter holder, Haze and Type A conversion filters, and pouch.	4.95	
PB Colorfilm Kits	19-31.5 mm	.....	Nine kits containing lens shade and filter holder (Series V, and 31.5 filters) Haze and Type A filters, filter pouch. For same cameras as the PB Filter Kit.	5.50	
SAWYER'S, Inc. View-Master Type A-Matched	Slip-on	.....	Type A Filter, only; for View-Master Personal Stereo Camera.	4.50 pair	

Manufacturers' and distributors' addresses begin on page 194

SPIRATONE					
Spiratone	21.5-51 mm	See Col. 4	Round; optical glass. Colors: Yellow, medium; Green, medium; Orange; Red, medium; Blue Photoflood; Type A; Haze, UV16, UV17; Skylight; No. 81D.	1.00-2.00	.75
	21.5-51 mm	.....	Polarizing Neutral.	2.00-3.98	
Spiratone DeLuxe	30-39 mm	.....	Round, dye between optical glass. Colors: Yellow, Light, Medium; Red, Light; Green, Light; Orange; Haze, No. 1, No. 2-A, Type A; Blue Photoflood Conversion filters: 10, 11, 12, UV15, UV16, UV17, 81, 81A, 81B, 81C, 81D, 81E, Daylight flash 2-B.	1.29 1.49	
SUPER-TOMIC (Embassy Photo Prod) Super-Tomic Daylight Filters (UV15, UV16, UV17)			Standard Series for miniature and movie cameras; metal bound. For improved rendering of color and for use with Tungsten Light.	On Request	
TIFFEN MFG. CO.					
Cine and Mini Mounted Filters	See Col. 4	See Col. 4	Round; dye between optical glass; slip-on and screw-in mounts for all movie cameras, movie lenses, and miniature cameras. Colors: Yellow, medium; Red, light; Green, light; Orange; Type A; Blue Photoflood.	2.40	
Photar	See Col. 4	See Col. 4	Round; dye between optical glass; slip-on, screw-in, lens shade combination and bayonet mounts. For all cameras and lenses. Colors: Yellow, light, medium; Red light; Green, light; Orange; Haze, No. 1, No. 2-A; Type A; Blue Photoflood Conversion filters: 10, 11, 12, UV15, UV16, UV17; CC13, CC14, CC15, CC95. Daylight Flash 2-B. Available coated and uncoated. Filter kits also available.	1.35-10.00	
U. D. A.					
Cloud-on Filters	See Col. 4	Stick-on	Round; plastic stick-on mounts; two sizes, 1 11/16 and 1 3/8 inches. Colors: Red; Yellow; Green; all medium density.		.50
AT5 Filters	See Col. 4	Stick-on	Same as above; conversion type for using Type B Kodachrome outdoors.		1.35
WOLLENSAK OPTICAL CO.					
Wollensak Color Filters	See Col. 4	Screw-in	Round, optical glass; to fit all 8 and 16mm Wollensak Cine lenses. Colors: Yellow. 2X, 4X; Red; Haze; Neutral Density; Type A daylight filter for Kodachrome, Drop-in round coated optical glass with chrome rim; to fit all 8 and 16mm Wollensak Cine lens. Colors: Haze, Yellow, Green; Red, Natural Density, (No.—2x, No.—4x), Chrome A, Daylight filter for Kodachrome. Sizes 4, 4.5, 5, 5.5, 6.	2.59-6.95 3.00-5.00	

ULTRA FINE GRAIN NEGATIVES IN 4 MINUTES

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FINER NEGATIVES FASTER WITH THIS PERFECT COMBINATION. INEXPENSIVE, WITH LONG LIFE AND VERSATILITY! ASK YOUR DEALER TODAY!

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No. 22-2 For 2-2¼ x 2¼

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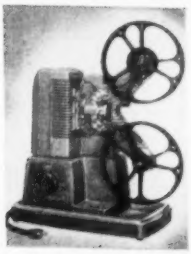
THE NEGA-FILE CO. Easton, Pa.

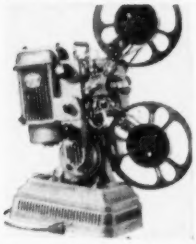
MOVIE PROJECTORS

AMPRO FUTURIST



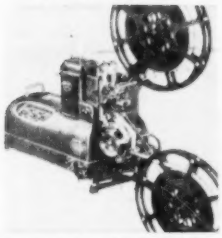
8 mm; silent; 400 feet capacity; line voltage 115, a-c, d-c; 50-60 cycles; 500 or 750-watt pre-focus lamp; direct lighting; separate light switch; ¾- or 1-inch f/1.6 coated Simpson lens; helical focusing; combination gear and belt drive; mechanical disk and wheel variable speed control, with single knob regulating all forward and reverse speeds, and single-frame projection; rotary disk shutter; constant-speed fan cooling; sealed lubrication; film snubbers; reverse; motor rewind; tilting device; built-in case; weight with case, 13½ lbs. Price, $185.

AMPRO IMPERIAL



16 mm; silent 400 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 750 or 1000-watt pre-focus lamp; direct lighting; separate light switch; 2-inch f/1.6 coated lens; combination gear and belt drive; rheostat control; barrel shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection device; swing-out gate; 3-tooth claw. Price, $219.50; case, $19.50.

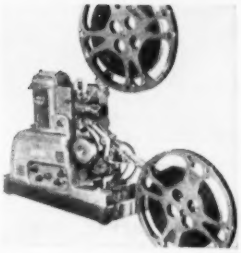
AMPROSOUND PREMIER-30



16 mm; sound and silent; 2000 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 750 or 1000-watt pre-focus lamp; direct lighting; separate light switch; 2-inch f/1.6 coated lens; helical focusing; 1 to 4-inch lenses available; belt drive; governor speed control; 16 and 24 frames per second; barrel shutter; blower and fins cooling; film snubbers; reverse; motor rewind; tilting devices; pilot light; maximum undistorted output, 15 watts. Price, including case, $549.

AMPRO STYLIST

16 mm; sound and silent; 2000 feet capacity; portable unit, weighs 29 lbs.; 750 or 1000-watt lamp; 8-inch Alnico speaker; case and cords included; coated 2-inch f/1.6 lens (1 to 4-inch lenses available); triple claw movement; swing-out gate; fast



automatic rewind; a-c or d-c operation; rheostat speed control; Class A universal type a-c, d-c amplifier with 4 watts maximum output. Price, $399.
MFR., Ampro Corp.

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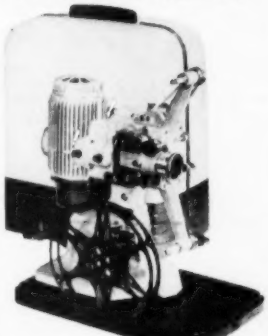
BELL & HOWELL 211

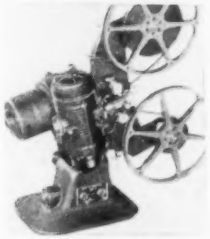
8 mm silent; 400-ft. capacity; 105-115-volt; 60 cycles; 500-watt standard medium prefocus bulb; direct lighting; separate light switch; Bell & Howell 1" coated f/1.6 lens; helical focusing; gear and belt drive; speed control fixed by constant speed motor; rotary disk shutter; blower cooling system; sealed lubrication; weight 12 lbs.; motor rewind; tilting devices. Price, with case, $99.95.

BELL & HOWELL 273



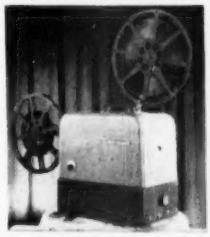
Silent 16 mm projector; 750-watt lamp; spring-belt drive and rewind; rewind without switching reels; 400-foot film capacity straight-line optical system. Price, with case, $199.95.

B&H REGENT



8 mm; silent; 400 feet capacity; line voltage 105-130 a-c, d-c; 500-watt B&H pre-aligned lamp; direct lighting; separate light switch; 1-inch f/1.6 coated lens; helical focusing; ¾-inch f/1.8, and 1½-inch f/2.1 lenses available; all gear drive; friction brake speed control; rotary disc shutter; blower and fin cooling; motor rewind; tilting devices; single frame projection device; metered lubrication; weighs 7 lbs. with carrying case. Price, $169.95; carrying case, $10.

B & H FILMOSOUND 202 MAGNETIC-OPTICAL



16 mm sound and silent; 2,000-ft. capacity; line voltage 105-130, a-c, d-c; 25-60 cycles; amplifier on a-c only; lamp wattage 1000; screw base drop out lamp housing; direct lighting; separate light switch; gear drive; motor governor speed control; speeds of 16 and 24 frames per second; rotary disc shutter; blower cooling; film snubbers; metered lubrication; reverse; motor rewind; tilting device; pilot light; single frame projection device; maximum undistorted amplifier output 10 watts; reproduces standard optical sound; records and plays back magnetic sound at 16 or 24 frames per second; accidental erasure prevention; record and erase heads adjacent; microphone included; coated B & H 2-inch f/1.6 helical focusing lens. Price, $699, inc. case. Available accessories include lenses, hand turning knob for editing, phonograph channel and microphone channel, padded cover, record and erase lock; head phones, turntable, and record button lock.

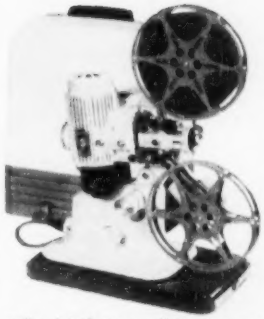
B & H FILMOSOUND 285-C

16 mm sound and silent; 2,000-ft. capacity; line voltage 105-130 a-c, d-c; 25-60 cycles; amplifier a-c only; lamp wattage 1000; screw base drop out lamp housing; direct light; separate light switch; coated 2-inch B & H

f/1.6 lens; gear drive; motor governor speed control; 16 and 24 frames per second; rotary disc shutter; blower and fin cooling; metered lubrication; film snubbers; reverse; motor rewind; tilting device; pilot light; single frame projection; maximum undistorted amplifier output 10 watts; 400-ft. reel included; aperture brush; oil can; spare reel arm belt; spare take-up belt; reel arm grease; case. Price, $449.95. Accessories available include lenses, auxiliary speakers, turn-tables, monitor speaker, automatic cord rewind and padded cover.

B&H DIPLOMAT

16 mm; silent; 400 feet capacity; line voltage 105-130, a-c, d-c; 1000-watt B&H pre-aligned lamp; direct lighting; separate light switch; 2-inch f/1.6 coated B&H lens; helical focusing; all gear drive; friction brake speed control; rotary disc shutter; fan and fin cooling; reverse; motor rewind; tilting devices; pilot light; single-frame projection device;



radio interference eliminator; metered lubrication; safe-lock sprockets; magnilite condenser; can project sound film; weighs 14 lbs. Price, with case, $281.95; carrying case, $18.
MFR., Bell & Howell Co.

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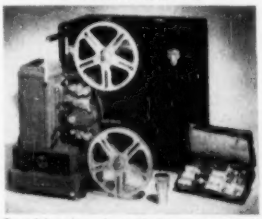
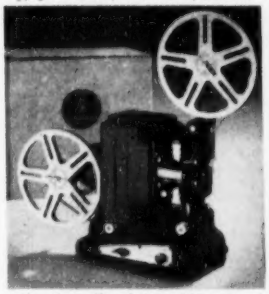
BOLEX G8-16



Combination 8 and 16 mm; silent; capacity 400 ft.; 110-120 a-c, d-c; 50-60 cycles; lamp wattage 750; bayonet lamp mount accessible from top; direct lighting; separate light switch; built-in variable resistance; built-in voltmeter; gear and chain drive; rheostat speed control; rotary disc shutter; helical focusing; blower cooling; sealed lubrication; reverse; motor rewind; tilting device; single frame projection; changeover kit. Coated 25-mm f/1.8 lens for 8 mm; coated 50-mm f/1.6 lens for 16 mm. Price, inc. case, $353. 800-ft. extension arms available at extra cost.

BOLEX M-8

8 mm; silent; 400-ft. capacity; 120 a-c, d-c line voltage; lamp wattage 500; bayonet lamp mount in swing-out housing; direct lighting; motor and light switch combined; helical focusing; gear drive; rheostat speed con-



trol; rotary disc shutter; blower cooling; sealed lubrication; motor rewind; 3-point centering tilting device; automatic loop former; swing-out gate; room light control in lamp switch; reel; oiler; hand rewind crank; coated 20-mm Kern f/1.6 lens. Price, $176.50. Case, $18.75. 25-mm Kern f/1.5 lens available.
MFR., Paillard Products, Inc.

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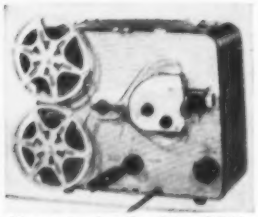
BROWNIE

8 mm silent; 200-foot capacity; 300-watt lamp; 105-125 volt, 60 cycle a-c operation only; Kodak Projection Ektanon 1" coated f/2 lens; single knob control for foward, still, reverse and rewind operation. Snap-on cover

Manufacturers' and distributors' addresses begin on page 194



with carrying handle. Price, $62.50.
MFR., Eastman Kodak Co.

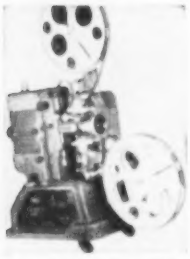
DeJUR 750

8 mm; silent; 400 feet capacity; line voltage 100-125 a-c, d-c; 25-60 cycles; 750-watt pre-focus lamp; direct lighting; separate light switch; variable resistance; coated 1-inch f/1.6 lens; helical focusing; ¾-inch and 1½-inch lenses available; still picture projection clutch; combination belt and chain drive; rheostat control; rotary disc shutter; blower ventilation; reverse projection; high speed motor rewind; tilting devices; swing-out film gate; case, 400-ft. reel. Price, $149.50 including tax; carrying case, $10 including tax.

DeJUR 1000

Similar to the Model 750 in features and characteristics; supplied with 750-watt lamp; has capacity for 1000-watt pre-focus lamp; automatic cord reel. Price, $167.50 including tax; carrying case, $10 including tax.
MFR., DeJur-Amsco Corp.

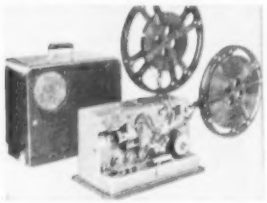
ELMO



16 mm; sound and silent; 750-watt illumination; smaller lamps can be used; 10-watt amplifier; speed control; microphone and phonograph jack; coated 2-inch f/1.6 projection lens; focusing control; 2000 feet capacity; single unit containing projector and amplifier. Price, $495.
DIST., General Photographic Supply Co.

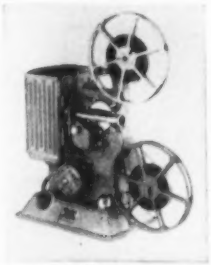
FORWAY 10-B

16 mm; sound and silent; 2000 feet capacity with extension arm supplied; 105-125 line voltages; 25-60 cycles; 750 or 1000-watt Westinghouse lamp recommended; reflected lighting; separate light switch; coated 2-inch Simpson f/1.6 lens; sliding focusing belt drive; governor speed control; rotary disk shutter; blower cooling; motor rewind; tilting device; 10 watts maximum undistorted output; steel



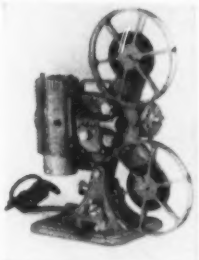
pressure shoe and gate. Price, $425.
MFR., Forway Industries, Inc.

KEYSTONE CROYDON R-8



8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 500-watt T-10 lamp; direct lighting; 3-position switch; 1-inch f 1.85 coated Wollensak lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disc shutter; blower cooled; motor rewind; tilting devices; pilot light; sealed lubrication with oil ducts to vital parts; weighs 23 lbs. Price $89.75; case, $10.50.

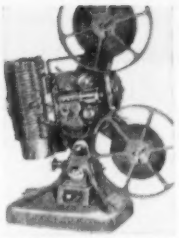
KEYSTONE COMMANDER K-68



8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 750-watt T-12 lamp; direct lighting; 3-position switch; coated 1-inch f/1.6 lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disk shutter; blower cooling; sealed lubrication with oil ducts to vital parts; motor rewind; tilting device; pilot light; single frame projection device. Weighs 17 lbs. Price, $114.50; case, $10.50.

KEYSTONE COMMANDER K-108C

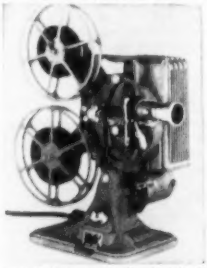
8 mm; silent 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 750-watt T-12 lamp; direct lighting; 3-position switch; 1-inch f 1.6 coated Wollensak lens; helical focusing; gear drive; rheostat speed control; rotary disc shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection; special threading and framing; sealed lubri-



cation with oil ducts to vital parts. Price, $149.50 with case.

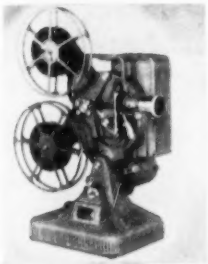
KEYSTONE CONTINENTAL A-82

16 mm; silent; 400 feet capacity; 110 line voltage a-c, d-c; 50-60 cycles;



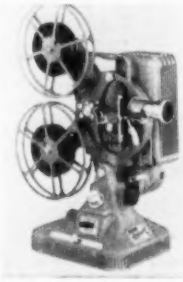
750-watt T-12 lamp; reflected lighting; 3-position switch; 2-inch f/1.6 coated Wollensak lens; helical focusing; enclosed combination gear and belt drive; rotary disk shutter; blower ventilation; sealed lubrication; reverse; motor rewind; tilting device; pilot light; single-frame projection; special threading and framing. Price, with reel, lamp and cord, $119.50, inc.

KEYSTONE CONTINENTAL DELUXE K-160



16 mm; silent; 400 feet capacity; 110 line voltage a-c, d-c; 50-60 cycles; 750-watt T-12 lamp; reflected lighting; 3-position switch; 2-inch f 1.6 coated Wollensak lens; helical focusing; combination belt and gear drive; rotary disc shutter; blower ventilation; sealed lubrication with oil ducts to vital parts; reverse; motor rewind; tilting devices; pilot light; single frame projection; Cordomatic reel; special threading and framing; weighs 28 lbs. Price, $149.50 with

KEYSTONE BELMONT K-161

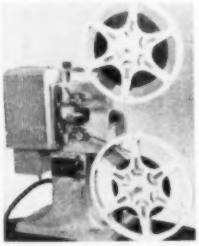


16-mm silent; 400-ft. capacity; lamp wattage 740; gear drive; 5 1-inch f/1.6 lens; motor rewind; same switch controls projector and room lights; built-in splicing units. Price, $159.50.

KEYSTONE REGAL K-109

8 mm silent; 400-ft. capacity; lamp wattage 750; coated 1-inch f/1.6 lens; gear drive; single switch controls projector and room lights; motor rewind; built-in splicing unit. Price, $159.50.
MFR., Keystone Mfg. Co.

KODASCOPE EIGHT-71A



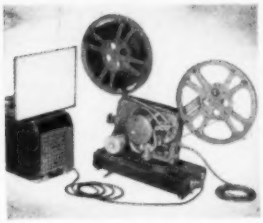
8 mm silent; 400-ft. capacity; 750-watt T-12 lamp supplied; interchangeable with 300-, 400-, and 500-watt T-10 lamps or 1000-watt T-12; direct lighting; separate light switch; coated 1-inch Kodak Ektanon f/1.6 lens; rubber belt drive for quieter running; rheostat speed control; safety shutter operated by air pressure; blower cooling with baffles introduced between condenser and aperture systems to protect film from heat; tilting device. Price $111.80, inc. tax. Case $18.50.

KODASCOPE PAGEANT SOUND PROJECTOR

16 mm; sound and silent; 2,000 feet capacity; 110 line voltage, a-c, d-c; 25-60 cycles; 750- or 1000-watt lamp; lamp swings out; direct lighting; separate light switch; 2-inch, f/1.6 coated Kodak Projection Ektanon lens supplied; 1-, 1½-, 3- and 4-inch lenses available; belt drive; governor speed control; rotary disk shutter; blower ventilation; sealed lubrication; film snubbers; motor rewind; tilting device; thread-light connection; rotating sound drum; 8-inch speaker, with 7-watt amplifier output, projector and speaker built into case. Price, with reel, lens, lamp, and spare exciter lamp, $400. Accessories include phonograph-microphone adapter, multi-speaker unit.
MFR., Eastman Kodak Co.

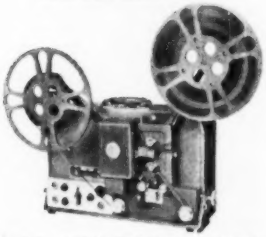
Manufacturers' and distributors' addresses begin on page 194

MOVIE-MITE 63 LM



16 mm; sound and silent; 2000 feet capacity; line voltage 105-120 a-c, d-c; 50-60 cycles; 300-watt T-8½ bayonet base lamp; direct lighting; separate light switch; 2-inch f/1.6 coated Somco lens; combination gear and V-belt drive barrel shutter; blower cooling; film snubbers; motor rewind; tilting devices; framer; constant tension take-up; weighs 27½ lbs.; complete with 800-foot reel, desk-top screen; single case with 6-inch speaker; aperture cleaner; lubricant: oil can, etc. Price, including case, $275.70. Accessories include 10-inch speaker with 50-foot cable.

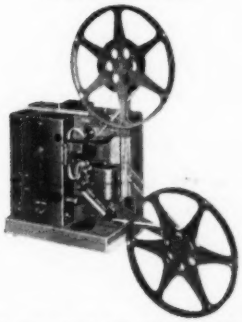
MOVIE-MITE 52



8 mm sound projector; magnetic sound-on-film recorder; 1" coated f/1.6 lens; 750-watt lamp; silent or sound projection; record or playback; 1600-foot reel capacity; 4½-watt amplifier output; 6" speaker; weight 34 lbs. Price, with microphone, $398.50.

MFR., Movie-Mite Corp.

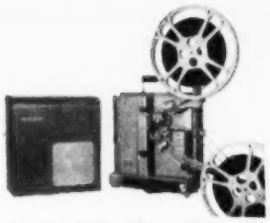
RCA SENIOR



16 mm; sound and silent; 2000 feet capacity; 117 a-c line voltage; 60 cycles; 750-watt T-12 pre-focused lamp; uses 200 to 1000-watt lamps; direct lighting; separate light switch interlocked with motor switch; coated RCA f/1.6 lens; helical focusing; belt drive; governor speed control; rotary disk shutter; blower cooled; one-spot lubrication; film snubbers; motor rewind; tilting device; pilot light; 10 watt undistorted output at less than 5% total harmonic distortion; one-case unit; spare reel; sound lamp; lens tissue; oil can; aperture brush; box fuses. Price, $560.

RCA JUNIOR

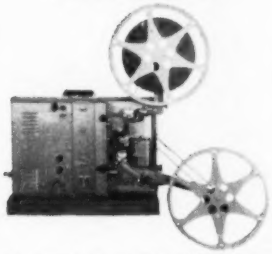
16 mm; sound and silent; 2000 feet capacity; 117 a-c line voltage; 60 cycles; 7-watt undistorted output at less than 5% total harmonic distortion; same features as Model 400 Junior except is a two case unit with amplifier and projector in one and speaker in other. Price, $475. Available lenses for RCA projectors include 1-, 1½-, 2½-, 3-, 3½-, and 4-inch focal lengths.



RCA SENIOR 400

16 mm silent, sound; 2000-foot capacity; 105-124 line voltage; 50-60 cycles; up to 1000-watt lamp; 750-watt medium prefocus lamp supplied; direct lighting; separate light switch; RCA Simpson 2" coated f/1.6 lens; helical focusing, with lock; belt-gear drive; 16 and 24 frames per second; rotary disk shutter; blower cooling; one-spot lubrication; motor rewind; film snubbers; weight 36¼ lbs.; tilting devices; pilot light. Price, $560, including speaker.

RCA MAGNETIC RECORDER PROJECTOR 400



16 mm silent, sound; 2000-foot capacity; 105-125 line voltage; 50-60 cycles; up to 1000-watt lamp; 750-watt medium prefocus lamp supplied; direct lighting; separate light switch; RCA Simpson 2" coated f/1.6 lens; helical focusing, with lock; belt-gear drive; 16 and 24 frames per second; rotary disk shutter; blower cooling system; one-spot lubrication; film snubbers; motor rewind; tilting devices; pilot light. Price, with speaker, $850.

RCA JUNIOR 400

16 mm silent, sound; 2000-foot capacity; 105-125 line voltage; 60 cycles; up to 1000-watt lamps; 750-watt medium, prefocus bulb supplied; direct lighting; separate light switch; RCA Simpson 2" coated f/1.6 lens; helical focusing, with lock; belt-gear drive; 16 and 24 frames per sec.; rotary disk shutter; weight 33½ lbs.; blower cooling system; motor rewind; tilting devices. Price, $475.

MFR., Radio Corp. of America, Engineering Products Dept.

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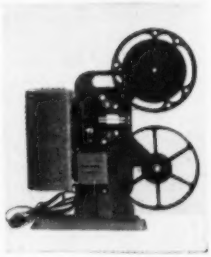
REGER 16-01



16 mm silent; 400-ft. capacity; 110-volt a-c; line voltage; 60 cycles; lamp wattage 100; bayonet lock lamp; 2-inch lens; direct lighting; sliding focus; gear and belt drive; rotary disc shutter; louvered lamp-house cooling; motor rewind; tilting device; extra reel. Price, $18.95.

MFR., Reger Mfg. Corp.

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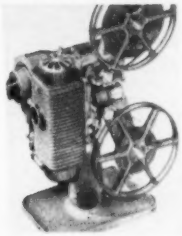
REVERE 85



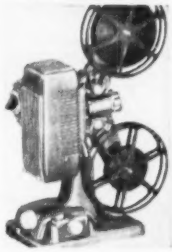
8 mm; silent; 300 feet capacity; 110-120 a-c, d-c line voltage; 500-watt or 750-watt pre-focus lamp; 1-inch f/1.6 coated lens; ball-bearing motor drive; roller-type sprocket guides pass damaged perforations; duplex shuttle film movement; rheostat speed control; power film rewind; enclosed chain and gear drive; double blower cooling; single frame projection device; tilting devices; beam threading light; duo-shield diffuser to reduce ceiling light. Price, $114.50; with coated 1-inch f/1.6 lens, ¾-adapter lens, 500- or 750-watt lamp, 400-foot reel, and Royalite case, $132.50.

REVERE 90

8 mm; silent; 400 feet capacity; 110-120 line voltage; 60 cycles; 500- or 750-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 1-inch lens; wide-angle attachment standard equipment; combination gear and chain drive; rheostat speed control; rotary disk

shutter; blower cooled with separate film cooling fan; motor rewind; tilting device; pilot light; single frame projection device. Price, including case, $159.50.

REVERE 48

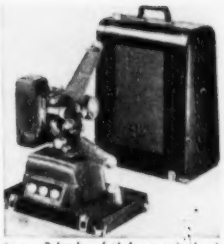


16 mm; silent; 400 feet capacity; 110-120 a-c, d-c line voltage; 60 cycles; 750-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 2-inch lens; combination gear and chain drive; rheostat speed control; rotary disk shutter; blower cooled with separate blower for film; motor rewind; tilting device; pilot light; single frame projection device. Price, $160.

REVERE SP-16

16 mm; sound and silent; 400-feet capacity; extension arm for 1600-foot reels; line voltage 105-120 a-c, d-c; 750-watt lamp; direct lighting; variable resistance; built-in voltmeter; 2-inch f/1.6 coated lens; combination gear and chain drive; fixed speed; rotary disc shutter; double blower cooling; sealed lubrication; motor rewind; tilting device; pilot light; beam threading device; duo-shield light diffuser; combination Alnico V speaker-carrying case combination; weighs approx. 33 lbs. Price, including case, $325.

MFR., Revere Camera Co.



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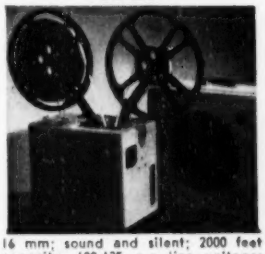
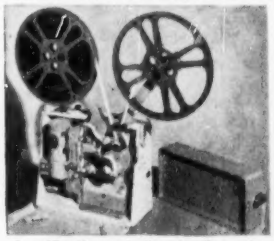
VICTOR SOVEREIGN 60-25



16 mm; sound and silent; 2000 feet capacity; 100-125 a-c line voltage; 50-60 cycles; 750- or 1000-watt lamp; straight line optical system; separate light switch; separate microphone and phonograph inputs; coated 2-inch f/1.6 lens; helical focusing; 1- to 4-inch lenses optionally available; rotary disk shutter; still picture device; reverse; clutch-controlled motor rewind; counter-balanced Instantilt device; automatic film trip device; 180-degree swing-out lens; 25 watts undistorted output; 60 db signal to noise ratio; 12-foot power cord; weight with 12-inch speaker and 75-foot speaker line, 64 lbs. Price, $539; for 25-cycle operation, $559.

VICTOR ESCORT 60-10



Specifications similar to Sovereign; 10 watts undistorted output; separate microphone or phonograph input; optional 9-inch top mounted, and 12-inch separately cased speakers. Prices, with 9-inch top-mounted speaker, $433; with 12-inch speaker, separately cased, $455.

VICTOR LITE-WEIGHT 60-4

16 mm sound and silent; 1600-ft. capacity; a-c, d-c; 25-60 cycles; lamp wattage 750; removable lamphouse; direct lighting; separate light switch; coated Simpson Optical 2-inch f/1.6 lens; belt drive; governor speed control; 16 and 24 frames per second; rotary disc shutter; fan cooling; film snubbers; reverse; motor rewind; tilting device; single frame projection; maximum undistorted amplifier output 4 watts; safety film trips; 180-degree swing-out lens; dual flexo pawls; power cord; 1600-ft reel. Price, inc. case, with 9-inch speaker, $395; with 12-inch speaker, $417. Available accessories include auxiliary speakers, slip cover, microphone.

MFR., Victor Animatograph Corp.

Manufacturers' and distributors' addresses begin on page 194

MOVIE EDITING EQUIPMENT

ADVANCE CINE

A.C.E. Rotary Viewer. For 35 mm; all-metal construction; manual and electrical operation; permits viewing of film between rewinds; forward or backward, at rewinding speed; has oil-less bearings; magnifier gives undistorted viewing; frame counter. Price, $159.50.

MFR. Advance Cine Equipment.

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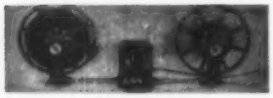
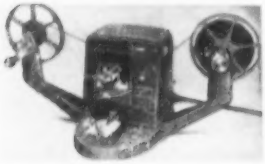
BELL & HOWELL



Filmotion Editor 16 mm. For 16 mm; all-metal construction; manual operation; in combination with splicer, viewer, and 2 rewinds; Viewer has groundglass with magnifying lens; diagonal splice; 2-speed geared rewinds with brake; frame identification device; gives brilliant, miniature movies on 3x2½" screen. Price, $155.95. Case available as accessory.



Filmotion Editor 8 mm. For 8 mm; all-metal construction; manual operation; in combination with splicer, viewer, and two rewinds; viewer has groundglass with magnifying lens; diagonal splice, geared rewinds; gives miniature movies, 2¼x1¾" screen. Price, $122.50. Case available as accessory.

MFR. Bell & Howell Co.

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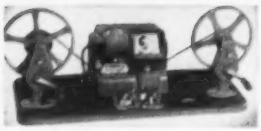
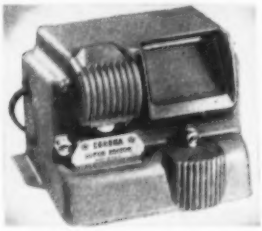
CORONA

Corona President Editor. For 8 and 16 mm; all-metal construction; manual operation; in combination with splicer, 2 800-ft. rewinds and viewer; has interchangeable optical system for 8 or 16 mm; notching device marks film frame viewed; framing device; cooling system; prism operated; 75-watt lamp; has collapsible mounting board; with case available as an accessory. Price, $97.75 with 16 mm optical mechanism; $94.50 with 8 mm optical mechanism. Price of case, $17.



Corona Super Editor. For 8 or 16 mm; aluminum construction; prism operated; manual operation; in combination with 2 rewinds, splicer, and viewer. Price, $49.50 for 16 mm; $47.95 for 8 mm.



Corona Super Viewer. For 8 or 16 mm; manual operation; prism operated; aluminum construction. Price, $32.50 for 8 mm; $33.95 for 16 mm.

Corona Film Cleaner and Preserver. Can be permanently attached to the President Dual Editor or with any rewinds and projectors; interchangeable wiper blades squeeze excess fluid from film; chromium plated. Price, $7.95. Accessories include extra wipers, 25 cents each; 6-oz. bottles of fluid, 55 cents.

Corona Splicer - Cleaner - Rewind Combination. For 8 and 16 mm; wood and metal construction; manual operation; standard splicer, 2 800-ft. rewinds, Cleaner & Preserver unit; mounted on walnut-finished board. Price, $24.75.

Rewind and Standard Splicer Combination. For 8 and 16 mm; standard splicer; 2 800-ft. rewinds; mounted on 24-inch board. Price, $16.95.

MFR., Photographic Industries.

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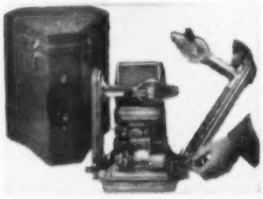
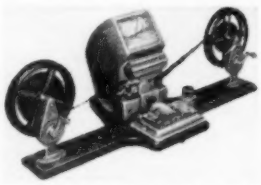
CRAIG

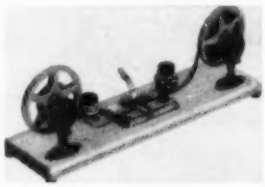


Craig "Fold-Away" Projecto-Editor. All-metal construction; manual and electrical operation; in combination with splicer, viewer, and 2 rewinds; electric illumination viewer; flickerless action editing on 3⅛x4¼" screen; matched light equal to normal home projection; features folding arms which permit storage in compact luggage-type carrying case; available in 8 or 16 mm combinations. Prices from $94.95 to $113.95; folding base only, $14.45; carrying case only, $17.50. All new Projecto-Editors can be converted to folding models.

Craig 8 and 16 mm Projecto-Editors. Similar to above model, but without folding baseboard; wood and



model construction. Price, 8 or 16 mm viewer only, $57.95; 8-mm Combination: Model E811 with Junior 400-ft. rewinds and Junior splicer, $69.95; Model E821 with Junior rewinds and Senior splicer, $79.95; Model E822 with Senior 400-ft. rewinds and Senior splicer, $84.95. 16 mm Combinations: Model E1622 with Senior rewinds and Senior splicer, $84.95; Model E1623 with Master 2000-ft. rewinds and Senior splicer, $86.95.



Craig Rewind Combinations. Available in 3 models: Craig Junior Combination with Craig Junior rewinds, Craig Junior splicer, film cement, water container on wood base; price, $12.95. Craig Senior Combination for 8 or 16 mm; includes Senior splicer, Senior rewinds, brake for speed and tension control; mounted on wood base. Price, $31.50. Craig Master Combination for 8 or 16 mm; similar to Senior Combination but with Master rewinds for 2000-ft. reels. Price, $33.50.

MFR., The Kalart Co.

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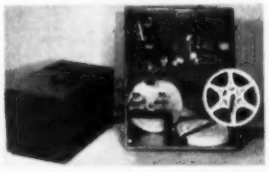
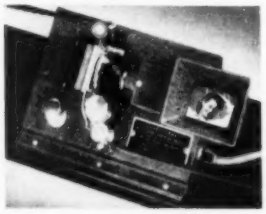
KODAK



Cine-Kodak Editing Kit. For 8 mm; complete editing "work bench" in luggage-type carrying case 14-in. wide; includes rewinds, Cine-Kodak Editing Viewer and splicer positioned for accessibility and working convenience; trays for film strips and space for reels and can provided. Price, $85.



Cine-Kodak Editing Viewer. Two models, for either 8 or 16 mm; metal base; gives illuminated, magnified view; metal base for mounting on any horizontal rewind board; marking device makes harmless nick on edge of film; operates 100-125 volts. Price, either 8 or 16 mm, $29.90.

MFR., Eastman Kodak Co.

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MARKS

Crest Film Viewer and Splicer. Two models for use with 8 or 16 mm; ball bearing focusing lens mount; on-off switch; all-metal construction; splicer has external scraper. Price, complete with cord, lamp and bottles, $9.95.

Marks Movie Viewer. For 8 and 16 mm; focusing lens; manual operation; provisions for mounting on rewind board; all-metal construction; 10-watt frosted lamp; 6 ft. cord. Price, $5.95.

MFR., Howard B. Marks Co.

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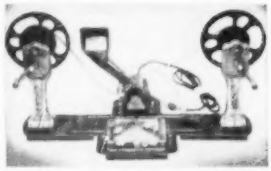
MANSFIELD



Mansfield Senior Editor 800. For 8 mm; all-metal construction; manual operation; complete with splicer, 2 rewinds and viewer; uses 6-watt lamp. Price, $25.95, inc. tax.

Mansfield Junior Editor. For 8 and 16 mm; wood and metal construction; in combination with 2 horizontal rewinds, splicer, and reflex-type viewer; non-electric, for use in artificial or daylight; rubber bumpers on base; takes up to 2000 ft. reels. Price, with Junior splicer, $7.50; with Auto splicer, $10.95.

MFR., Mansfield Industries, Inc.

•

Action Editor 950. 8 and 16 mm; all-metal; manual operation; combination splicer; 2 rewinds; viewer; action type; glass prism shutter; 1600-ft. rewinds. Price, $39.95, for 8-mm model; $44.50 for 16-mm model.

Manufacturers' and distributors' addresses begin on page 194

MICO

Mico Film Editor. For 8 and 16 mm; new Model II focusing; all-metal construction; large viewing screen; electrical operation; notching device marks film above frame to be cut for splicing. Price, $15.95.
MFR., Wolk Mfg. Co.

•

MOVIECRAFT

Movie-Still. Unit used in conjunction with still camera to enlarge movie frames; recommended for cameras using No. 120 or 116 size including reflex cameras; on 116 size film unit produces 1½x2 negative; on 120, 1-9/16x1-1/6 negative; device fits over camera lens while exposure is made; user can see enlarged view of selected frame before exposure; no cutting or splicing of film; for 8 and 16 mm. Price, $5.95 including tax.
MFR., The Moviecraft Co.

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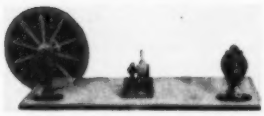
NEUMADE



Neumade Editing Board No. 1. For 16 mm; combination of Griswold HM-6 Splicer and cement, and 2 Neumade RW-1 rewinds with 2000 ft. reel capacity; mounted white enamel wood panel, 40x13, with felt bottom and rubber feet. Price on request.

Power Rewind Assembly PD-1. For 16 mm; white enameled wood base, 40x13; for electrical operation, in combination with splicer, measuring machine, synchronizer, etc.; left-hand unit geared with instant stop arm-

brake; speed of power unit controlled with foot rheostat; slip clutch provides protection against cinching; fan-cooled motor; heavy-duty rewinds having 2000 ft. reel capacity. Price on request.
DIST., Neumade Products Corp.

SIEMENS

Splicer and editing boards. For 8- and 16-mm film; folds when not in use; braking device on reels; detachable splicer; metal scraper. Price, $38.74.
DIST., Ercona Camera Corp.

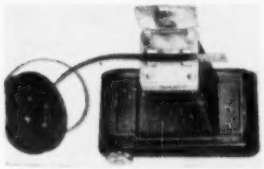
•

SUPERIOR

Cine Printer. For 8 and 16 mm; negative, positive, and color films; motor drive; all-metal construction; viewing window for visual printing control; 11 light adjustments for printing control; light powered by dry cell; film capacity, 400 ft.; operates 100-120 volts a-c; prints at rate of 20 ft. per minute. Price, $75.75 including tax.
MFR., Superior Bulk Film Co.

TESTRITE

Cinelarger 8-16. Enlarges movie frame on No. 620 film; roll of still film developed and printed in regular manner; used in conjunction with No. 2 floodlamp; no cutting or splicing; built-in lens and shutter. Price,



for either 8 or 16 mm model, $13.95.
MFR. Testrite Instrument Co., Inc.

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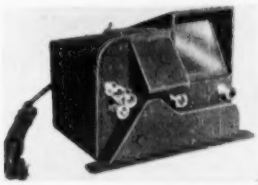
U. S. PHOTOGRAPHIC



Kaydee Movie-Action Editor. For 8 or 16 mm; manual operation; electrical illumination; 3x4 viewing screen; all-metal construction; ventilation provision; can be mounted on rewind board; off-on switch. Price, less lamp, $29.95.
MFR., U. S. Photographic Equipment Corp.

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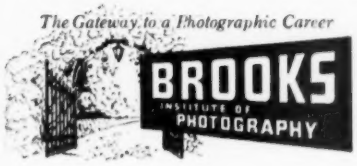

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MOVIE TITLERS

A-to-Z

Kodachrome Color Title Outfit. Makes titles in 6 colors using 8x10 backgrounds; uses script letters on photographic backgrounds; set includes 1800 initials, 8 alphabets; 6 jars of colors; 8 backgrounds; tracing paper, brush, pencil, distance chart and title background holder. Price, $6.50.

MFR., A-to-Z Movie Accessories.

AREL

PM Movie Titler. For 8 and 16-mm cameras; all-metal construction; full size titler with built-in lights; professional attachments; 36" overall length; 9x12" titling board with interchangeable ground and clear glass; provisions for running titles, flips, zooms, scrolls, rolls, double exposures, tabletop photography; permits full size letters and character. Price, including copying lens, universal camera base, reflector, sockets, and cords, $39.50.

DIST., Arel, Inc.

BARDWELL & McALISTER

Mult-Efex Titler. Two models for 8 and 16-mm cameras; the only difference is the diopter size of the

auxiliary lens on the 16 mm model; makes zooms, scrolls, rolls, flip-flops, swing - forward - and - back, swing around, wipes, and other titles; for trick effects and split screens; equipped with Mult-Efex Aligner for centering of titles and small objects; all-metal construction. Price, $40.

MFR., Bardwell & McAlister, Inc.

BOLEX

Bolex Titler. For all still and movie cameras, with special provisions for Bolex H-16 and H-8; all-metal construction; accurate fittings and centering; rack-over for Bolex and other cameras; movable reflectors; slide for zooms, stop for zooms; built-in tape measure; one-two-three plane arrangement; can be used in vertical or hori-

zontal position; can be used as animation stand. Price, $154.50, complete with following: frame for mounting reflectors, 2 reflectors, 1 title frame in 2 parts, and supporting stem; sliding camera cradle; celluloid framing card; lamp for framing 8-mm cameras; wooden case. Extra accessories include adjustable main support, plate with slide grooves and guides, 2 flip-flops, hand crank, hollow frame, titling disc, revolving drum, frame for transparencies, hand-crank drive, rolling screen, movable support with ring. Price of entire set of extra accessories, $141. Price of complete titler, $295.50.

DIST., Paillard Products, Inc.

DeJUR

Vertical Movie Titling Stand. For 8 and 16-mm cameras; wood and metal construction; can be used with

still cameras; vertical-type titler; handles title sizes from 3x4 to 15x20; counterbalanced camera support; lights with flexible supports; large baseboard; rigid, lifetime construction. Price, $46.50. Available without lights if desired.

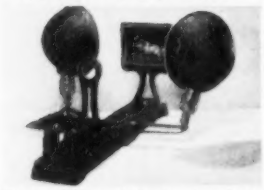
MFR., DeJur-Amsco Corp.

GOERZ

Goerz Effect and Title Device. For 8 and 16-mm cameras; wood and metal construction; focusing scope is mounted next to camera; has magnifying eyepiece; masked groundglass for correct focusing; vignetting device adjustable up or down; fits over large aperture of f/1.5 lenses; includes filter holder, mask box, book-style paper carrier, movable title standard; base slide for holding camera, and title attachment with long rods. Price, $183.50.

MFR., C. P. Goerz American Optical Co.

HOLLYWOOD CINE



Master Titleer U-51. For 8- and 16-mm cameras; shoots from 4 to 40 inches. Price, Model U-51, $21.75; regular model, $14. Trick effect accessories.

MFR., Hollywood Cine Products.

KELSEY

Excelsior Printing Press. For 8 and 16-mm use; all-metal machine uses regular printer's type and regular printer's cuts; complete with type ink and all accessories for printing titles. Price, $38.56 and up. Accessories include variety of type styles, cuts, fancy borders, etc.

MFR., The Kelsey Co.

KODAK

Cine-Kodak Titler. For 8 and 16-mm cameras; all-metal construction; designed for all Cine-Kodak cameras except Model A and Special; package of title cards included; base, easel, centering guide, 5¼" supplementary diopters lens. Price, $8.15. Accessories available include titler base for Magazine 8 camera, and several other Cine-Kodak cameras.

MFR., Eastman Kodak Co.

MANSFIELD

Mansfield Combination 8-16. For all makes 8 and 16-mm cameras; all-metal construction; alignment target; auxiliary lens mounted in vertical column; folds for storage; with 12 title cards. Price, $5.95.

MFR., Mansfield Industries, Inc.

PHOTO MATERIALS

Premier Titler Model WL. For 8 and 16-mm cameras; all-metal construction; consists of flat camera mount; centering device; alignment target; 8-inch supplementary lens; lens standard; hinged camera bracket; standard flat, metal base; for

zooms, wipes, rolls, and all special effect; 2 lights permanently mounted to unit. Price, $16.15 plus tax; MODEL ML, same as above but without lights, $9.65 plus tax.

Premier Professional. For 8- and 16-mm cameras; vertical or horizontal titling; adjustable lights; variety of shots possible; metal construction. Price, with lights, $25.80; without lights, $21.30.

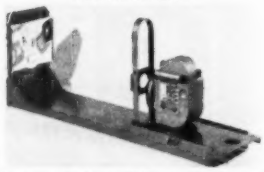
MFR., Photo Materials Co.

STRUHL

Magic Master. For 8- and 16-mm cameras; wood, metal and plastic construction; includes 480 letters, numbers, figurettes in three sizes and styles; self-supported backgrounds for color, transparent for live action and 3 dimensional titles; letters adhere to backgrounds. Price, $12.95; standard model, $9.95.

MFR., Joseph Struhl Co.

SUPERIOR



Universal Cine Titler. For 8 and 16-mm cameras; all-metal construction; can be used vertically or horizontally; 4x5 field; supplementary lens; instruction booklet on titling. Price, $5.95 including tax.

DIST., Superior Bulk Film Co.

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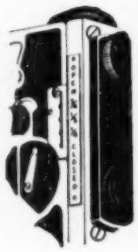

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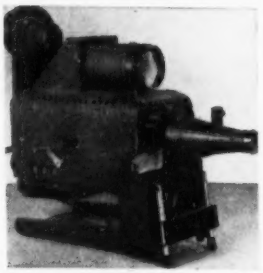


VAC Opaque Projector. Takes 3¼x4 glass slides, 35 mm film strips; takes 2¼x2¼ and 2x2 glass, metal, or cardboard with accessory carriers; weighs 41 lbs.; 3½, 8 or 16- inch lens, f/3.5, f/5.6, and f/4.6 respectively; helical focusing; adjustable condensers; 500-watt pre-focus lamp for a-c or d-c; forced ventilation; elevating device; automatic frame-centering; horizontal slide carriers; Price, $290.00. Accessories include foot control, masking plate, leatherette carrying case, slide carriers, platen, and two postcard holders.

Model MC300 Delineascope. Takes 2x2 glass slides, cardboard mounts, and 35-mm strip film; weighs 9 lbs.; accommodates both single and double-frame 35-mm film, rotating projection head; coated 5-inch f/3.75 lens; helical focusing; 300-watt T-10/61 lamp; 115 line voltage; forced ventilation; switch located back of projector; push through horizontal Autofocus slide carrier; removable film carrier; automatic frame-centering; positive elevating lever; selection of universal or induction motor. Price, $92; case, $7.50.

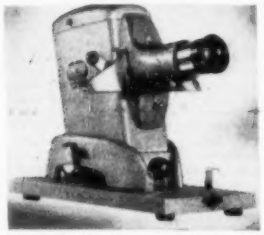
Model GK Delineascope. Takes 3¼x4 and 2x2 glass slides and 2x2 cardboard mounts; weighs 24 lbs.; coated 16-inch f/4.6 lens; helical focusing; condensers adjustable for lenses of various focal lengths; 750-watt T-12

lamp; 115-120 line voltage; forced ventilation; automatic centering slide carrier; front and rear elevating devices; selection of universal or induction motor. Price, $251 including case.

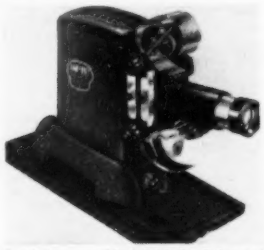
Performer 150 Projector. Takes 2x2 glass slides and cardboard mounts; weighs 7 lbs.; coated 5-inch f/3.5 lens; helical focusing; 150-watt T-8 lamp; 115 line voltage; switch in back of projector; push through horizontal Autofocus slide carrier; friction type elevator lever; heat-absorbing glass; coated first surface reflector. Price, $49.50; case, $7.50.

MFR., American Optical Co.

AMPRO



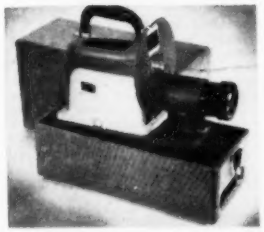
Model 30-A. Takes 2x2 glass slides or cardboard mounts; weighs 11 lbs.; 5-inch f/3.5 coated lens; knob focusing; 300-watt T-10 lamp for a-c or d-c; automatic snap-action self-centering slide carrier; screw-and-block tilting; Price, including case, $54.



Dual-Purpose Model 30-D. Takes 2x2 glass slides on cardboard mounts, single frame 35 mm slide film; 5-inch f/3.5 coated lens; sliding focusing; 300-watt T-10 lamp for a-c or d-c; special fin design to give maximum air flow; automatic snap-action self-center glass or mounts; two sprockets, curved film aperture to carry film; automatic frame centering; tilting device. Price, $92 with case.

MFR. Ampro Corporation.

ARGUS PB-200

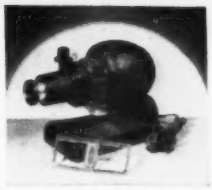


Takes 2x2 glass slides and cardboard mounts; accommodates single and double frame micro-films and film strips with accessory film-strip holder; three oversize condensers; heat-absorbing glass; 200-watt lamp; is equipped with permanently attached blower unit built into carrying case; tilting arrangement; coated 4-inch f/3.5 lens; tripod bushing to use projector on camera tripod. Price, $49.50. Film-strip holder available as accessory, $4.25.

MFR., Argus Cameras, Inc.

BELIREX

Takes 2x2 glass slides and cardboard mounts and 35-mm filmstrips; plastic construction; weighs 26 oz.; rotating projection head; 80-mm f/3.5 sliding focus lens; 110 line voltage; 75-watt T-8 lamp; convection cooling; dual



slide carrier; manual film carrier. Price, $19.95.

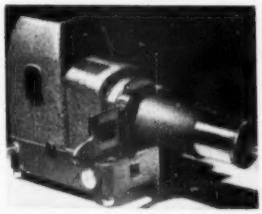
DIST., Photographic Importing & Distributing Corp.

BELL BOY

Sound slidefilm projector composed of S.V.E. Model G projector with 300-watt lamp and 4-inch lens, and 8-inch Alnico V speaker with amplifier having 8-watt output; single speed, 33⅓ rpm gear-driven motor; includes case, 11½x15½ screen; and swivel top for projector. Price, $186.

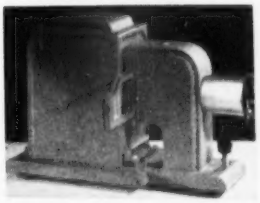
MFR., Movie-Mite Corp.

BELL & HOWELL



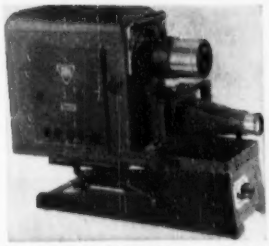
Duo Master. Takes 2x2 glass slides and cardboard mounts; weighs 5 lbs.; all metal construction; provision for projecting Kodak Bantam slides vertically; 5-inch f/3.5 coated lens; helical focusing; condensers adjustable; 3½ and 7½-inch lenses available; 300-watt Bi-plane filament lamp; permanently attached, heat-absorbing filter, conventional 2-place slide carrier; tilting device. Price, $89.45; carrying case, $10.50.

B & L 2x2 SLIDE PROJECTOR



Takes 2x2 glass slides and cardboard mounts; weighs 8 lbs.; 5-inch lens; sliding focusing; 150-watt T-8 lamp on 120 line voltage; double-sliding slide carrier; tilting device; Price $58; case, $11.

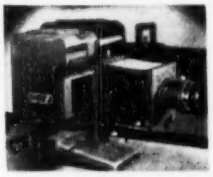
Model LRM-18. For opaque objects, drawings, photographic prints, 37 lbs.; 18-inch lens for opaque material and 10-inch lens for slide projection; sliding focusing; 7 and 14-inch lenses available; 500-watt T-20



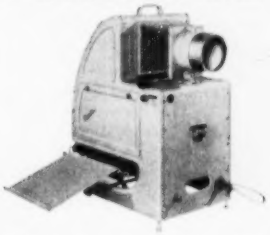
lamp; motor-driven blower; double slide carrier; two postcard holders for opaque objects. Price, $235.

MFR. Bausch & Lomb Optical Co.

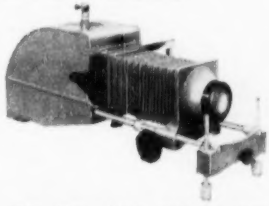
BESELER MODEL C



Takes 3½x4 slides adaptable to 2x2 slides and 35-mm filmstrips; 110 line voltage; convection cooling; adjustable base; available with a variety of lenses of different focal lengths. Accessories include lenses and 2x2 slide filmstrip adapters. Prices on request.



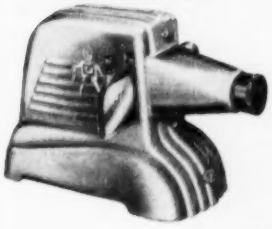
Vu-Lyte. Opaque projector; projects any 10x11 in. wide to 14 in. high material; 33 lbs.; exhaust cooling system; 1000-watt T-20 med. pre-focus base lamp; automatic feed belt conveyor, permanently attached to projector. Price, with 4-inch lens, $235; other models to $348.50.



Slide King. Slide projector takes 3¼x4, 2¼x2¼, 2x2 in. slides; forced draft blower cooling; a-c or d-c operation; 750-watt lamp; front and rear elevating device. Price, with 2⅝ in. lens, $216.50; other models to $473.

MFR., Charles Beseler Co.

BRUMBERGER



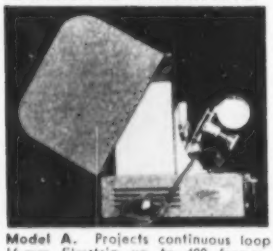
Manufacturers' and distributors' addresses begin on page 194

Takes "Bantam," 35-mm and 2¼x2¼ slides; motor cooled; vertical and horizontal tilts, vernier lamp adjustment; interchangeable slide carriers; helical focusing; coated, 5-inch, f/3.5 anastigmat lens. Price, $69.50 including tax; case, $9.95.
MFR., Brumberger.

DAVIDSON TELE-COLOR

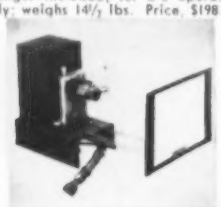
Takes 2x2 or 2½x2½ mounts; quickly convertible by interchanging condensing lens systems and carriers; 6-inch f/3.5 coated lens; double heat-absorbing lenses; 165 or 500-watt T-10-C13D pre-focus lamps; fan cooled; roll-out slide carrier; horizontal leveling; elevation and focus controls at rear. Price, $79.50, with condenser system desired; conversion system complete in cage with slide carrier, $15.50; 5-inch f/3.5 lens and 8-inch f/4.5 lens available at $22.50 each.
MFR., Davidson Mfg. Co.

DUNNING ANIMATIC



Model A. Projects continuous loop 16-mm filmstrip up to 400 frames; coated 2-inch f/1.6 lens; instantaneous claw movement for frame change; 500-watt Medium pre-focus bulb; pendant push-button and cord for remote control; 110-125 a-c line voltage; weighs 13 lbs. Complete desk screen units and accessories available. Price, $178.

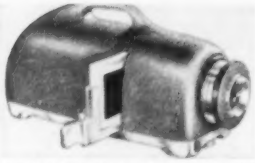
Model B. For continuous operation; projects up to 50 feet of 16-mm film frame by frame; accommodates 750-watt lamp; furnished with 500-watt; coated 2-inch f/1.6 lens; automatic timing device; manual push-button changer included; for a-c operation only; weighs 14½ lbs. Price, $198.



Junior Animatic. Takes 16-mm filmstrips; also projects continuous loop filmstrips; 2-inch coated f/1.6 lens; operates on 105-120-volt a-c or d-c; lamp wattage 200; manual or remote control operation; for desk or screen use. Price, with 7x9-inch washable translucent screen, extension arm, special 1-inch wide-angle lens, remote control cord, and projection lamp, $69; with 2-inch lens, remote control cord, and projection lamp, $66. Accessories include desk screen assembly, lenses, and case.
MFR., Dunningcolor Corp.

EMDE MODEL 21

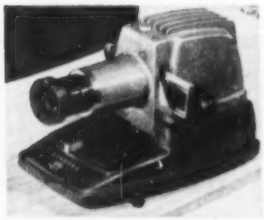
Takes 3¼x4 glass slides; takes 2¼x2¼ and 2x2 slides with adapters; weighs 8 lbs; coated 5-inch f/3.5 lens, coated; helical focusing; auxiliary lens available to increase focal



length of projector lens used; 150-watt T-8 lamp; line voltage 115-120; manual, positive stop aluminum slide carrier; tilting device; automatic frame centering; switch at rear of base. Price, $89.50; case, $13.75.
MFR. Emde Products, Inc.

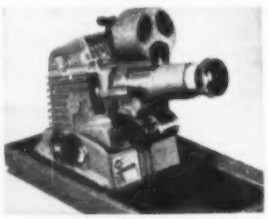
GOLDE

Master Projector 447. Takes 1⅝x2¼, 2¼x3¼, 3¼x4, and 2x2 glass slides; takes 2x2 cardboard mounts with accessory 2x2 slide adapter; takes double and single-frame 35-mm film with accessory Filmatic projection head; weighs 12 lbs.; rotating head; 6½-inch coated lens; helical focusing; condensers adjustable; 5, 9, and 12-inch lenses available; 500-watt T-20 medium prefocus lamp; line voltage, 110 to 120 a-c; 2-place slide carrier; tilting and frame-centering devices. Price, $76.65 inc. tax; case, $13. Long throw lenses in focal lengths of 14, 16, and 18 inches available.



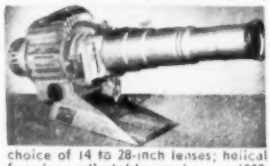
Coronet. 2x2 in. slide projector; 200-watt lamp T-8; heat filter; 4-inch f/3.5 coated lens; blower cooling; a-c operation only. Price, $49.95.

Manumatic 300-P. Takes 2x2 glass slides and cardboard mounts; takes Bantam 828 film; 5-inch coated f/3.5 lens; helical focusing; condensers adjustable; 2, 4, and 7-inch lenses available; 300-watt T-8½ lamp; motor driven blower; automatically stacks 50 paper or 20 glass slides; choice of Manumatic or 2-way slide carriers; tilting device; framing device. Price, $58.50, inc. tax; case, $12. Accessories include projection head for 35-mm strip film and Index Automatic slide changer.

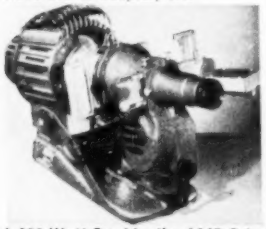


Filmatic 300-P-1043. Takes 2x2 glass slides and cardboard mounts; double or single-frame 35-mm film; Filmatic rotating head; 5-inch f/3.5 coated lens; helical focusing; Manumatic or 2-way slide carrier; adjustable condensers; blower cooled; same features and characteristics as the Manumatic model. Price, $90.25 including case.

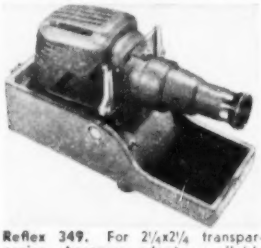
Air-Flo Stereopton 1043. Takes standard sizes from 2x2 to 3¼x4 glass slides with accessory slide adapters;



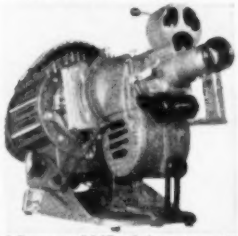
choice of 14 to 28-inch lenses; helical focusing; adjustable condensers; 1000-watt T-20 lamp for a-c use; forced air-blower cooled; 2-place slide carrier; tilting and frame-centering devices. Price, $85.50 including case and lamp. Accessories available include blower-adapter, etc.



1,000-Watt Combination 1047. Takes glass slides from 2x2 to 3¼x4; takes 2x2 cardboard mounts; weighs 43 lbs.; coated 5-inch f/3.5 lens; helical focusing; adjustable condensers; 1000-watt T-20 lamp; 110-120 a-c operation; Manumatic or 2-way 3¼x4 slide carrier; double blower. Price, $152.75, including case. Accessories available include projection head for 35-mm film strip and 2 to 28-inch lenses.

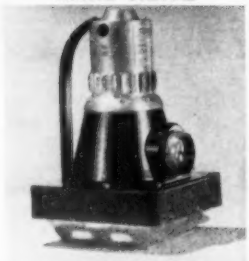


Reflex 349. For 2¼x2¼ transparencies. Accessory adapter available for 2x2 slides. Weighs 19 lbs.; coated 6½-inch f/4 lens; helical focusing; 5, 9, and 12-inch lenses available; condensers adjustable for lenses of various focal lengths; 300-watt T-8½ lamp; 110-120 a-c operation; blower cooled; 2-way autofocusing and self-centering slide carrier; automatic film advance; Ro-Tilt and lateral leveling device. Built into case. Price, $86.50 inc. tax. Accessories include projector head for 35-mm strip film.



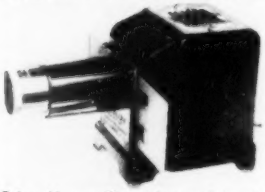
All-Purpose 1048. Takes glass slides from 2x2 to 3¼x4; double and single-frame 35-mm film strips; coated 5-inch f/3.5 lenses; choice of 14 to 28-inch single-element lens in barrel; helical focusing; adjustable condensers; 250 to 1000-watt T-20 MPF lamp; a-c operation; a-c, d-c units available, double-blower cooled; 2-way or Manumatic slide carrier; self-rewind film carrier; tilting device; case. Price, $117.25, inc. lamp and case.
MFR., GoldE Mfg. Co.

KARL HEITZ



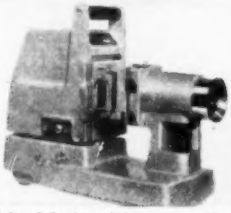
Cobiwe. Takes slides, 35-mm filmstrips, as well as prints and drawings; weighs 27 oz.; 12-cm f/3.1 lens; enlarges up to 20 times size; motor cooled; 200 watt on 110-125-volt a-c or d-c. Price, $129; case, $19.95. Accessories available are close-up lens, heat-absorbing glass plate; stand with drawing board; lightbox with condenser lenses and slide carrier for 2x2 to 2¼x2¼ transparencies.
DIST., Karl Heitz, Inc.

HOLLYSLIDE PROJECTOR



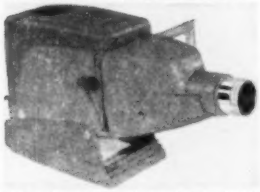
Takes 16 mm film strips; weighs 1½ lbs.; 2-inch lens; sliding focusing; 75-watt T-8 lamp; thermal cooling; 10 color transparencies mounted in a single cardboard holder; locator mechanism centers each frame as the holder is advanced through the projector. Price, $29.50.
MFR. Hollyslide Co., Inc.

KERSHAW SLIDE KING



Takes 2x2 glass slides and cardboard mounts; adaptable to 35-mm filmstrip; all-metal construction; weighs 12 lbs.; single or double frame projection; rotating projection head; coated 4-inch f/2.8 lens; micrometer focusing; adjustable condensers; 500-watt prefocus lamp; line voltage 120; convection cooling; side switch; shuttle slide carrier; twin spool pressure release stripfilm advance; automatic film advance and frame centering; micrometer tilting. Price, $79.95; case, $17.95. Available accessories include lenses, spare lamp, film strip carrier.
DIST., General Photo Supply Co.

KIMAC DELUXE UNIVERSAL PROJECTOR

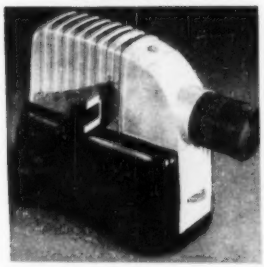


Takes glass slides from 2x2 to 3¼x4; 2x2 cardboard mounts; weighs 17 lbs.; 8-inch f/4 coated lens; helical focusing; 6-inch lens available; 300-watt T-10 lamp for a-c or d-c use; 2-place sliding carrier; tilting device.

Manufacturers' and distributors' addresses begin on page 194

Price, $85 including case.
MFR., The Kimac Co.

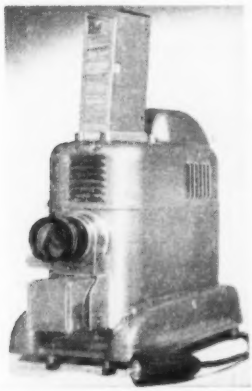
KODASLIDE



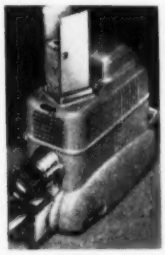
Master Model. Takes 2x2 mounted slides; die-cast aluminum construction; fan cooled; 1000-watt lamp, lower wattage lamp can be used; condenser system adjustable to match projection lens; manually operated slide carrier; elevating mechanism; 5 or 7½-inch Kodak Projection Ektar or Ektanon lenses available. Price, $169 to $246, depending on lens.

Merit. Takes 2x2 mounted slides, inserted from top; plastic construction; 5-inch Kodak Projection Iktanon f/3.5 coated lens; line voltage 32-250; ac or dc; 150-watt lamp; elevating mechanism; convection cooling; switch in line cord. Price, $26.10 inc. tax. Carrying case available.
MFR., Eastman Kodak Co.

LA BELLE



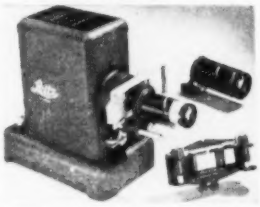
Model 302. Takes 35 mm and Bantam slides; automatic magazine slide projector; slides change by remote control; holds 75 readymounts or 40 glass slides; slide magazine feeds, changes, and re-stacks slides; coated f/3.5 lens; 500-watt lamp; blower cooled. Price, $154.95, inc. tax, with case.



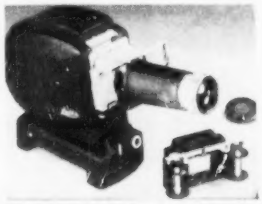
Model 500. Takes 35 mm and Bantam slides; automatically feeds, changes, and re-stacks slides; blower cooled with pre-heating chamber to condition slides for projection; holds 75 readymounts or 40 glass slides; coated f/3.5 lens; 500 watts. Price, $95, inc. tax.

Model 200. Takes 35 mm and Bantam slides; automatic magazine feeds, changes, and re-stacks slides; pre-heating chamber to condition slides; "movie-action" shutter to eliminate "wipe" effect during change; holds same number of slides as Model 500; coated f/3.5 lens; 200-watt lamp. Price, $68.50.
MFR., La Belle Industries.

LEITZ



VIII S. Takes 2x2 glass slides and cardboard mounts, and double and single frame 35-mm strip film; rotating projection head; coated 85, 100, or 120-mm f/2.8 lens; helical focusing; adjustable condensers; 400-watt PFC lamp; 110 line voltage; convection cooling; metal slide carrier; roll film holder; tilting device.



Prado. Takes 2x2 glass slides and cardboard mounts, and double and single frame 35-mm strip film; coated 100 or 120-mm Hektor f/2.8 lens; helical focusing; adjustable condensers; 250-watt PFC lamp; metal carrier; roll film holder.
MFR., E. Leitz, Inc.

REVIEWER 500

Reviewer 500. Takes 2¼x2¼ in. and 2¾x2¾ in. glass slides; 2x2 cardboard mounts; 5-inch lens; helical focusing; 500-watt bulb; forced blower cooling; push-through slide carrier. Price, $95.00; case, $7.50.
MFR., American Optical Co.

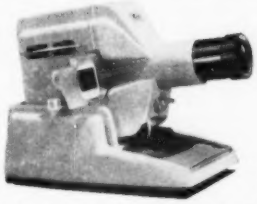
SIEMENS 35 MM—2 x 2 ATTACHMENT

Takes 2x2 glass slides and cardboard mounts, and 35-mm film strips; metal construction; weighs 1 lb.; shows either single or double frame 35 mm; rotating projection head; 135-mm f/6.5 Rodenstock lens; helical focusing; fits on almost all 16 mm silent and sound projectors, and uses the illumination of the projector it is used with; dual type slide carrier. Price, $15.95.
DIST., Spiratone.

SKAN 200-WATT SP 201

Takes 2x2 in. glass and cardboard mount slides; 5-inch f/3.5 coated lens; sliding focus; 200-watt bulb; built-in blower; optional carrier for manual changing of slides; viewer for seeing slides before projection; horizontal tilt control. Price, $44.50.

SKAN 150-WATT SP 151

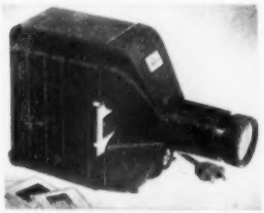


Takes 2x2 in. glass and cardboard mount slides; 5-inch f/3.5 lens; sliding focus; 150 watt bulb; built-in blower; built-in slide track; optional carrier for manual changing of slides; automatic frame centering; horizontal tilt correction control. Price, $37.50.

SKAN 100-WATT SP 101

Takes 2x2 in. glass slides and cardboard mounts; 5-inch f/3.5 lens; sliding focus; 100-watt lamp; built-in blower; optional carrier for manual slide changing; built-in slide track. Price, $29.95.

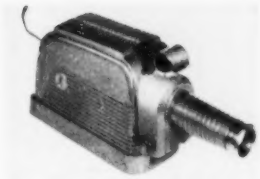
Model SP-200A. Takes 2x2 glass slides and cardboard mounts; Bantam, single and double-frame 35 mm film; coated 5-inch f/3.5 lens; friction focusing; 4-inch f/3.5 coated lens available; 200-watt T-8½ DC-short lamp; blower system cools both lamp and slide; direct insertion slide carrier; automatic frame-centering; tilting device. Price, $39.95. Accessories include manual slide changer, index slide file, carry case, etc.

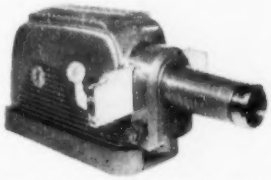


Model SP-100A. Same as above in features and characteristics except it has 100-watt T-8SC-short lamp and uncoated 5-inch f/3.5 lens. Price, including tax, $29.95.
MFR., G-M Laboratories, Inc.

SOUNDVIEW

Model PS-43. Takes 35 mm strip film; single frame; 5-inch f/3.5 coated lens; 300-watt T-10 bulb; blower cooled; glassless pressure plates; automatic film advance and centering; remote control push-button of filmstrip. Price, $75.00; case, $9.90.





Model PS-63. Takes 2x2 in. cardboard mounts and 35 mm strip film; single frame; 5-inch f/3.5 coated lens; helical focusing; 300-watt T-10 bulb; blower cooled; push-pull type slide carrier; glassless pressure plates; automatic film advance and frame centering. Price, $92.50; case, $9.90.

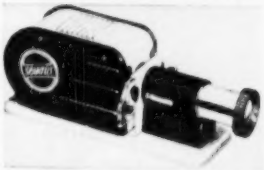
Model SA-43. Automatic sound slidefilm projector; 300-watt lamp; 35 mm film; two speed roundtable. Price, $195.50.

Model SA-62. Automatic sound slidefilm projector for 35 mm and 2x2 slides. Price, $214.50.

Model SM-43. Manual operation, remote-control pushbutton 35 mm sound slidefilm projector. Price, $165.90.

Model SM-63. Manual operation, remote-control pushbutton 35 mm sound slidefilm projector; takes 2x2 in. slides also. Price, $185.40.
MFR., Automatic Projection Corp.

SPARTUS 2x2 SLIDE PROJECTOR



Takes 2x2 glass slide and cardboard mounts; single frame 35 mm; 5-inch f/3.5 lens; 100-watt lamp; sliding focusing; 110-120 a-c line voltage; built-in on-off switch; tilting device. Price, $12.95; case, $3.50.
MFR., Herold Mfg. Co., Inc.

STRIP-SLIDE PROJECTOR

Projects 16-mm single-frame still pictures up to 6x9 feet in size; coated 2-inch lens; leveling device; blower cooled; 150-watt lamp; 115-125 volts, a-c. Price, $99.50; carrying case, $12.50.

Manufacturers' and distributors' addresses begin on page 194

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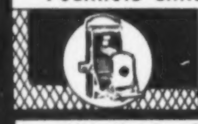

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Jen Captor for IIIF 15.95

ROLLEICORD III—ROLLEIFLEX III

ONLY A FEW LEFT!

f3.5 ctd Xenar lens, flash synchro compur shutter 91.00 USED

Rolleiflex III X-M f3.5 Xenar 169.50 USED

Rolleiflex III X-M f3.5 Tessar 189.50 USED

LIKE NEW 35mm BOLSEY B2

F3.2 Ctd Lens, Cpld RFDR Built in Flash Synch Reg. $73.50 — *ONLY* 44.95

Brand New Case $5.95

Brand New Flashgun $7.50 Used

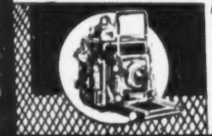
DAYLIGHT FILM LOADER

FREE! 100 ft. 35mm PX or XX Film PLUS 10 empty cartridges with purchase of our 35mm Daylight Film Loader

Loader Alone	$7.95
100 ft. film (PX or XX)	3.50
10 Cartridges	1.00
	reg. $12.45

MINIFILM'S PRICE complete. Plus 50c postage 7.95

Brand New 4 x 5 PACEMAKER



Crown Graphic Outfit!

Complete with Kalart Cpld. Rfdr. 135mm f4.7 ctd Schneider Xenar in M-X Synchro Compur Shutter, Graflock Back, Heiland Flash. 1 CFH

ALL BRAND NEW Completely installed 189.50

Pacemaker Speed Graphic Outfit equipped as above $214.95

LATE LEICA IIIC

w/f2 Summitar ctd. — ONLY 169.50

VOIGTLANDER VITO II OUTFIT

w/f3.5 Skopar, Flashgun, shade, 3 filters, case. Reg. $74.25. Used. **$46.95**

w/Compur shutt. 51.95

Prompt Free appraisal and Quotation will be gladly rushed to you by return mail. Mail Orders promptly filled. Paid or C.O.D., FOB New York. Note: On C.O.D. kindly include 10% Deposit on Order. Include Postage. Prices subject to change.

LU — 2-1416

MINIFILM CAMERA CORPORATION

1190 AVENUE OF AMERICAS, N. Y. C., BET. 46th and 47th St.

LIECA CONTAX NIKON CANON EXAKTA

	New	Used	Trade-in
LEICA STANDARD, F3.5 Elmar		$ 49.50	$ 30.00
LEICA D, Rfdr, F3.5 Elmar		74.50	50.00
LEICA III, F3.5 Elmar		96.00	70.00
LEICA IIIa, F3.5 Elmar		109.00	80.00
LEICA IIIa, F2 Summar		124.00	100.00
LEICA IIIC, F3.5 Elmar		139.00	110.00
LEICA IIF, Body, Synchro	$139.00		70.00
LEICA IIIF, F3.5 Elmar*c	278.00		140.00
LEICA IIIF, F2 Summitar*c	384.20		190.00
LEICA IIIF, F1.5 Summarit*c	435.20		240.00
CONTAX I, F2 Sonnar		68.00	45.00
CONTAX II, F2 Sonnar		132.50	100.00
CONTAX II, F1.5 Sonnar		159.50	120.00
CONTAX III, F2 Sonnar		166.00	120.00
CONTAX III, F1.5 Sonnar		186.00	130.00
CONTAX IIA, F2 Sonnar*c	444.00	224.00	180.00
CONTAX IIA, F1.5 Sonnar*c	488.00	254.00	215.00
CONTAX IIIA, F1.5 Sonnar*c	534.00	299.50	250.00
CONTAX S, F2 Biotar,c	460.00	175.00	135.00
CANON IVS, F1.8 Serenar*c	295.00	190.00	145.00
NIKON F2 Nikkor*c	259.00	179.00	115.00
NIKON F1.4 Nikkor*c	349.00	224.00	170.00
KINE EXAKTA I, F3.5 Tessar*		84.50	65.00
KINE EXAKTA I, F2 Biotar*		134.00	100.00
KINE EXAKTA, II, F2 Biotar*	199.50	154.00	115.00
KINE EXAKTA VX, F3.5 Tessar*c	249.50		140.00
KINE EXAKTA VX, F2.8 Tessar*c	269.50		150.00
KINE EXAKTA VX, F2 Biotar*c	343.00		190.00

LEICA CONTAX NIKON CANON ACCESSORIES

	New	Used	Trade-in
35mm. F3.5 Elmarc		$ 52.00	$ 35.00
35mm. F3.5 Summaronc	102.00	67.00	50.00
50mm. F3.5 Elmarc	68.00	43.00	30.00
50mm. F2 Summar		43.00	30.00
50mm. F2 Summitarc	173.40	94.00	70.00
50mm. F1.5 Summaritc	224.40	154.00	115.00
85mm. F1.5 Summarexc	442.00	196.00	165.00
90mm. F4 Elmar Chromec	112.20	69.50	55.00
135mm. F4.5 Hektorc		72.00	50.00
135mm. F4.5 Hektor Chromec	150.00	118.00	90.00
200mm. Telyt w Reflex Housingc	258.00	194.00	155.00
28mm. F3.5 Serenarc	177.85	116.00	85.00
28mm. F3.5 Nikkorc	179.00	117.00	85.00
35mm. F2.8 Biogonc		87.00	70.00
50mm. F1.4 Nikkorc	198.00	135.00	95.00
50mm. F1.5 Sonnarc	224.00	94.00	60.00
85mm. F2 Sonnarc	292.00	96.00	65.00
85mm. F2 Serenarc	187.00	129.00	90.00
135mm. F4 Sonnarc	170.00	87.00	70.00
135mm. F3.5 Nikkorc	154.50	96.00	65.00
LEITZ Polaroid Filter	27.36	19.50	13.00
LEITZ Focaslide	36.00	24.00	17.00
LEITZ Imarect Finder	42.00	32.00	23.00
LEITZ IIIF Flashgun BC	24.00	18.00	12.00
LEITZ Mirror Reflex Housing	102.00	69.00	50.00
LEITZ Rapid Winder	24.00	17.50	12.00
LEICA Meter	24.00	17.50	12.00
LEITZ Bellows Attach.	58.50	39.50	30.00
ZEISS Revolving Universal Finder	80.00	56.00	40.00
ZEISS Contameter Closeup	81.00	57.00	40.00

EXAKTA CONTAX S PRAKTICA ACCESSORIES

	New	Used	Trade-in
35mm. F2.5 Retrofocus W.A.c	$ 99.50	$ 63.00	$ 50.00
40mm. F4.5 Tessar W.A.c	99.00	49.00	35.00
40mm. F3.5 Cassaron W.A.c	49.50	33.00	25.00
58mm. F2 Biotar Preset.c	170.00	89.50	65.00
75mm. F1.5 Biotarc	216.50	116.00	85.00
85mm. F2.8 Steinheilc	68.00	48.00	35.00
90mm. F1.8 Angenieuxc	149.50	107.00	75.00
105mm. F4.5 Xenarc	53.83	36.00	27.00
135mm. F4.5 Xenarc	58.95	39.00	30.00
135mm. F4.5 Triotarc	75.00	54.00	35.00
180mm. F5.5 Tele-Xenarc	82.75	56.00	38.00
400mm. F5.5 Tele-Megorc	199.50	139.50	100.00
PENTA PRISM for VX w case	53.00	36.00	27.00
PRISM FINDER for Praktica	19.95		12.00
EXT. TUBE SET	7.95		4.00
MICROSCOPE Adapter Set	11.95		5.00

35mm CAMERAS

	New	Used	Trade-in
ARGUS C3, F3.5, Flash, Casec	$ 69.50	$ 39.00	$ 32.00
ARGUS C4, F2.8c	99.50	69.50	52.00
BOLSEY B, F3.2, Rfdrc	61.50	33.00	24.00
BOLSEY B2, F3.2, Rfdrc*	73.50	46.00	35.00
BOLSEY C, F3.2, Reflexc*	109.50	64.00	50.00
CIRO 35, F3.5, Rfdrc*	49.05	33.50	24.00
KODAK FLASH BANTAM, F4.5*	56.00	32.00	24.00
KODAK 35 Rfdr, F3.5*c		49.50	30.00
KODAK PONY 135, F4.5c*	35.74	24.50	18.00
KODAK PONY 828, F4.5c*	31.15	22.50	16.00
ILOCA II, Rfdr, F3.5c*	49.50	39.50	30.00
MERCURY II, F2.7*c		24.00	15.00
EXA, F2.9 Meritar*c	89.50	61.50	50.00
EXA, F3.5 Tessar*c	119.75	89.50	70.00
CONTESSA, F2.8 c*	214.00	117.00	90.00
REVERE STEREO, F3.5*c	174.50		85.00
DIAX II, Rfdr, F2 Xenon*c	89.50		55.00
ROBOT STAR D, F1.9 Xenon*c	249.50	159.50	130.00
RECTAFLEX, F2 Xenon*c	295.00	169.50	110.00
KODAK SIGNET, Rfdr, F3.5 Ektar*c	92.60	59.00	50.00

REFLEX CAMERAS

	New	Used	Trade-in
ARGOFLEX 75,c*	$ 15.95	$ 10.95	$ 7.00
ARGOFLEX E,F4.5c		23.50	15.00
CIROFLEX D, F3.5c*		48.00	36.00
CIROFLEX E, F3.5c*		68.00	55.00
GRAFLEX 22, F3.2c*	89.50	68.00	55.00
ROLLEICORD II, F3.5 Triotar		62.00	45.00
AUTO. ROLLEIFLEX, F3.5 Xenarc		117.00	85.00
AUTO. ROLLEIFLEX, F3.5 Tessarc		128.00	100.00
AUTO. ROLLEIFLEX, X-M, F3.5 Xenarc	265.00	166.00	140.00
AUTO. ROLLEIFLEX, X-M, F3.5 Tessarc	285.00	187.00	160.00
3¼x4¼ SUPER D. GRAFLEX, F4.5c*	248.75	127.00	90.00
4x5 SUPER D GRAFLEX, F5.6c*	287.25	149.50	110.00
KODAK REFLEX 1, F3.5c*		64.00	45.00
KODAK REFLEX II, F3.5c*	161.00	99.50	70.00
IKOFLEX IA, F3.5 Tessarc*	149.50	99.50	75.00
MASTER REFLEX, F3.5 Primotarc*	189.50	115.00	80.00
HASSELBLAD, F2.8c*	499.50	339.00	275.00
RICHOFLEX, F3.5c*	39.50	29.50	20.00

ROLL FILM CAMERAS

	New	Used	Trade-in
MINOX III Camera, F3.5 Latestc	$129.50	$ 89.50	$ 65.00
POLAROID PATHFINDER, F4.5c*	249.50		120.00
KODAK TOURIST, F4.5 Syncroc	72.55	44.00	28.00
MEDALIST I, F3.5c		87.00	65.00
MEDALIST II, F3.5, Syncroc	297.50	162.00	130.00
VOIGTL. BESSA II, Rfdr, F3.5 Skoparc*	124.50	67.00	50.00
SUPER IKONTA A, F3.5 Tessar	162.00	68.00	50.00
SUPER IKONTA B, F2.8 Tessar	236.00	89.00	65.00
SUPER IKONTA C, F3.5 Tessar	186.00	112.00	75.00
SUPER IKONTA BX, F2.8 Tessar	281.00	120.00	90.00

..Flash

30 Day FREE Trial Period
2 FULL YEAR Guarantee
75% Trade-In Allowance Within 90 Days

ONLY MINIFILM offers you these distinct price quotations! Highest Trade-in allowances! Lowest selling prices! Examine our current Brand New Offerings and superb Like New Equipment, which is available to you for outright purchase or on a Trade-in basis, and for your complete guidance, our convenient Trade-in Allowance listings.

1—Locate the trade-in allowance price of your present equipment, in column three.
2—Select that Brand New or Used Camera, or equipment, you desire in column one or two.
3—Deduct the trade-in allowance from the Brand New or Used Price.
4—Then rush us your equipment plus your remittance, or C.O.D. instructions for the balance due. MINIFILM will immediately forward the equipment you desire!—Of course your selection is insured, because our 10-day FREE trial period and full refund terms, one year guarantee, is always in effect at MINIFILM!

PRESS CAMERAS	New	Used	Trade-in
2¼x3¼ Busch, F4.5c	$109.95	$ 72.00	$ 55.00
4x5 Ann. Sp. Graphic, F4.5, Rfdr Flash, FPA, 3 CFHc		139.00	100.00
23 Pacemaker Speed Graphic, F4.5 CFH,	254.50	144.00	120.00
23 Pacemaker Crown Graphic, Equipped as above	224.85	125.00	105.00
23 Century Graphic, F4.5c	108.00	68.00	55.00
23 Super Linhoff 3 Lensesc	575.00	349.00	280.00

8mm CAMERAS	New	Used	Trade-in
REVERE 88, F2.5c	$ 72.50	$ 39.50	$ 30.00
REVERE 61 Mag. F2.5c	112.50	64.00	50.00
REVERE B63 Mag. Turret, F2.8c	142.50	75.00	65.00
REVERE 50 F2.8c	49.50	27.00	22.00
REVERE 40 Mag. F1.9c	124.50	75.00	63.00
REVERE 44 Mag. F1.9c	154.50	87.00	75.00
KODAK MAGAZINE F1.9c	150.95	89.00	70.00
KODAK Brownie F2.7c	43.30	29.50	22.00
KEYSTONE Olympic F2.5c	78.00	44.50	34.00
KEYSTONE K-8 F3.5		19.50	10.00
DEJUR Fadematic Turret F1.9c	157.50	97.00	78.00
B&H COMPANION, F2.5	79.95	46.00	35.00
B&H AUTO 8 Mag., F2.5c	134.95	83.00	70.00
B&H AUTO 8 Mag., Turret, F1.9c	199.95	134.00	110.00
BOLEX L8 F2.8c	97.00	52.00	40.00
BOLEX H8 Deluxe, F1.9c	364.75	239.00	180.00

16mm CAMERAS	New	Used	Trade-in
KODAK ROYAL Mag., F1.9c	$176.25	$122.00	$100.00
KEYSTONE A9, 100ft roll, F2.5c	89.50	55.00	40.00
KEYSTONE A12, Turret, roll, F1.9c	151.00	89.50	70.00
B&H AUTOLOAD 200, F1.9c	214.95	135.00	110.00
B&H Mag. Zoot Turret, F1.9c	259.95	167.00	125.00
PATHE SUPER SOUND SP 16 Turret	450.00	325.00	215.00
CINE SPECIAL II, F1.9 Ektarc	956.20	635.00	450.00
AURICON CINE Voice Camera	695.00	495.00	400.00
BOLEX H 16 Deluxe, F1.9	372.75	239.00	180.00

8mm PROJECTORS	New	Used	Trade-in
REVERE 85DL, 500W, cc	$124.50	$ 64.00	$ 50.00
REVERE 90, 750W, cc	159.50	89.50	70.00
DEJUR 750, 750W	149.50	87.00	72.00
DEJUR 1000, Cordamatic	177.50	109.50	85.00
KEYSTONE R8, 500W	89.75	54.00	40.00
KEYSTONE K68, 500W	114.50	61.00	50.00
KEYSTONE K109, 750W, cc	159.50	99.00	80.00
B&H 221 500W	99.50	64.00	50.00
B&H REGENT	169.95	104.00	80.00

16mm PROJECTORS	New	Used	Trade-in
KEYSTONE A82, 750W	$119.50	$ 62.00	$ 50.00
KEYSTONE K161, 750W cc	159.50	99.00	80.00
REVERE 48, 750W	160.00	99.00	80.00
B&H 273, 750W	199.95		100.00
B&H DIPLOMAT, 750W	281.95	169.00	130.00
B&H 285C Sound Proj.	449.95	285.00	235.00
B&H 202C Sound Recording Proj.	699.95	465.00	395.00
REVERE SOUND PROJ.	325.00	187.00	150.00

SLIDE PROJECTORS	New	Used	Trade-in
ARGUS PBB 200W Blower, case	$ 49.50	$ 33.00	$ 24.00
GOLDE CORONET 200W Blower	49.95	34.00	24.00
GOLDE MASTER, 500W	76.65	49.50	30.00
TDC A1 150W	34.75	23.50	15.00
TDC STEREO 2-500W Lamps	175.00	115.00	90.00
TDC STREAMLINER Duo 300W	69.50	41.00	35.00
TDC STREAMLINER Duo 500W	89.50	56.00	44.00
TDC SHOWPAK, 300W Blower	54.50	37.50	27.00
SVE SKYLINE, 200W	41.95	19.75	12.50
SVE SKYLINE, 300W Blower	52.45	29.00	22.00
KODASLIDE TABLE VIEWER 4x	49.50	30.00	22.00
LABELLE 500, 500W	95.35	53.00	40.00
LABELLE 302, 500W Automatic	154.95	99.00	75.00

PRESS CAMERA ACCESSORIES	New	Used	Trade-in
23 GRAFLEX ROLL FILM HOLDER	$ 14.95	$ 9.95	$ 7.00
23 GRAFMATIC FILM HOLDER	11.60	8.50	6.00
23 GRAFLOCK BACK	11.25	8.50	6.[illegible]
45 POLAROID LAND BACK	77.50	59.00	35.00
[illegible] ROLL FILM HOLDER	17.00	12.00	8.00
45 GRAFMATIC FILM HOLDER	17.25	12.00	8.00
GRAFLARGER BACK	28.00	19.50	13.00
GRAFLARGER STAND	14.00	9.50	7.00
MAR-BAR ADAPTA ROLL BACK	22.50	14.95	8.00

STILL CAMERA ACCESSORIES	New	Used	Trade-in
ROLLEIKIN I BACK	$ 35.78	$ 19.00	$ 12.00
ROLLEIKIN II BACK	35.78	24.00	15.00
ROLLEINAR & ROLLEIPAR SET	27.74	15.50	10.00
ROLLEI FLASHFLEX BC GUN	21.80	13.50	7.00
MEDALIST CF BACK	46.00	25.00	15.00
MEDALIST EXT. BACK	13.50	8.00	5.00
TOURIST ADAPTER KIT	13.25	7.50	4.00

MISCELLANEOUS	New
Complete Bolex Stereo System for Camera & Proj.	$397.50
Bolex Pan Ciner Zoom Lens	447.50
Aux. Tele. & W.A. Comb. Lens set (For Argus C3, Bolsey, Signet, Contessa, E.K. 35, Exakta)	24.95
Camera Guides for: Stereo Realist, Rolleicord-Rolleiflex, Bolsey, Argus, Exakta, Speed Graphic, Kodak Miniature Cameras, Voigtl. 35mm. ea.	1.95
Norwood Flashrite Meter	12.95

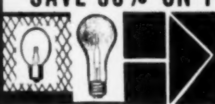
c Coated * Synchronized

BRAND NEW ENLARGERS	reg.	SPECIAL
Federal 135 w f4.5 lens	49.95	37.40
" 269 w f6.3 lens	39.75	29.50
" 269 CL w f6.3 lens	53.00	39.50
" 315 CL w f4.5 lens	80.00	57.75
" 450 CL w f4.5 lens	114.75	82.25
DeJur Versatile 11	99.50	74.95
DeJur 4x5 Prof.	172.50	134.95

USED HASSELBLAD CAMERA

w f2.8 Ektar, speeds 1 to 1/1600 interchangeable film mag. and lens. Preset diaph. When New 499.00
ONLY 324.00

SAVE 30% ON FLASHBULBS

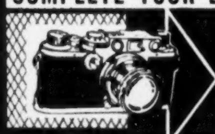


#5 Case of 120	10.92
SM Case of 120	11.76
#11 Case of 120	12.60
#22 Case of 120	14.28
#5B Case of 120	14.28

1953 PRAKTIKA

35mm Single Lens Reflex Camera, f2 ctd. Biotar, Built in synchro.
ONLY 118.50 Brand New
Case 7.50

COMPLETE YOUR LEICA



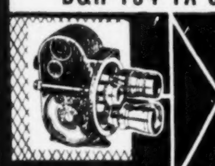
L.N. 35mm f3.5 Leitz Summaron, ctd.
L.N. 90mm f4 Leitz Elmar, chrome, ctd.
New Univ. Image erecting Finder
$256 Value
ONLY 149.50 COMPLETE

SAVE ON 8mm LENSES

Brand new ctd. lenses! Imported!

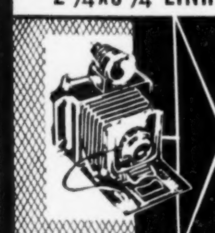
7mm f2.5 W.A.	19.00
6mm f1.9 W.A.	29.75
1½" f3.2 Tele	9.85
1½" f2.5 foc. mt.	20.50
1½" f1.9 foc. mt.	29.75
1½" f1.5 foc. mt.	32.35

B&H 134 TA 8mm ROLL FILM CAMERA



3 lens turret. Critical focuser, w/f2.5 lens. Reg. 129.95
ONLY 74.50 USED

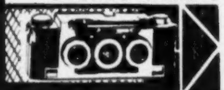
2¼x3¼ LINHOF SUPER TECHNIKA



W 105mm f3.5 Xenar, 65mm f6.8 Angulon, 180mm f5.5 Tele-Xenar all in Compur M.X. all 3 cpld. Reg. 575.00
ONLY 389.00 USED

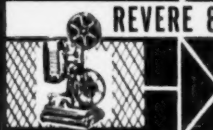
4x5 Super Technika w 150mm f4.5 Xenar in Compur Synchro cpld. rfdr. Reg. 359.75
ONLY 255.00 USED

STEREO REALIST OUTFIT



Complete w case, flashgun & viewer.
Reg. 188.50 SAVE 54.50
ONLY 134.00 USED

REVERE 85 PROJECTOR



500W 8mm Proj. adjustable speeds. With case.
Reg. 124.50
ONLY 72.50 USED

1953 ZEISS CONTAX D

W f2 ctd. Biotar Preset. Flash synchro. Eye level Viewfinder.
Reg. 485.00
ONLY 208.00 USED

35mm EDINEX S CAMERA

W f3.5 ctd. Edinar in Pronto Synchro shutt. Self timer.
ONLY 29.95 BRAND NEW
Case 5.95

ZEISS CONTESSA 35

W f2.8 ctd. Tessar. Synch shutt., built in Exp. Meter.
Reg. 226.00
ONLY 108.00
Case 9.50

For KINE EXAKTA, CONTAX S and PRAKTIKA

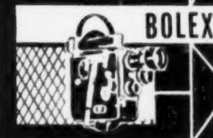
New Bellowscope for extreme close-up work. Reg. 44.50
ONLY 23.75

TDC MAINLINER PROJECTOR

300W blower cooled. W ctd f3.5 lens. Reg. 58.50
ONLY 33.00 USED

Streamliner Duo 300. Reg. 69.50
ONLY 41.00 USED

BOLEX H16 LEADER



16mm, Speeds 8 to 64, single frame, reverse w f1.9 lens
ONLY 167.00 USED
H8, 8mm, as above 167.00

TAPE RECORDERS

Revere T 100 Reg. 169.50 ONLY 104.50
Revere T 800 w radio ONLY 167.50 USED

Wilcox Gay	89.50 used
Webcor	129.50 used

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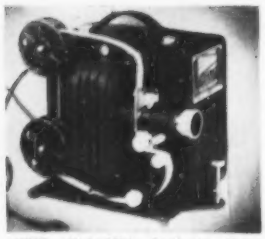

MFR., Strip-Slide Projector Co.

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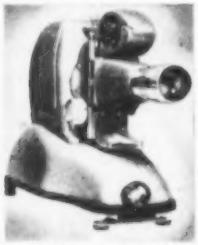
S. V. E.

Instructor 300. Equipped with rotating projection head; takes 2x2 slides and single and double frame 35 mm strip film; coated 5-inch f/3.5 lens; 300-watt lamp; horizontal slide carrier; glass aperture plates; sprocket drive; push-in style threading; adjustable aperture for single and double frame, and 1x1" size. Price, $89.50; case, $9.95; rewind takeup available as accessory.

Instructor 750. Same as Instructor 500, except uses 750-watt T-12 lamp; has semi-automatic vertical slide carrier and rewind take-up, other features identical to above. Price, $139.50; case, $12.95.

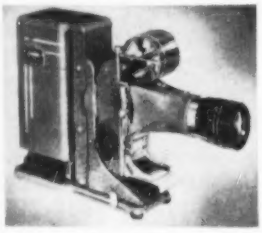


Instructor 500. Same as Instructor 300, except blower-cooled; uses 500-watt T-10 lamp; rear 3-position switch; other features identical to above. Price, $109.50; case, $10.95.

Instructor 1000 AC. Takes 2x2 glass slides and cardboard mounts; takes single and double frame 35 mm strip film; rotating projection head; coated 5-inch f/3.5 lens; 3 to 10-inch lenses available; helical focusing; blower cooled; push-in threading; glass aperture plates; semi-automatic vertical slide changer; rewind take-up, uses 1000-watt T-12; for a-c use only; automatic frame-centering; tilting device; sprocket drive. Price, $189.50; case, $14.95. Instructor 1000 AC-DC, same projector as above, except operates on a-c or d-c, $219.50; case, $14.95.

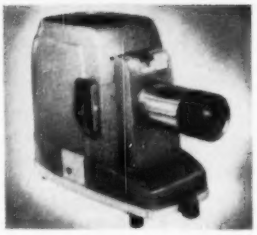
School Master. Takes single-frame filmstrips, 2x2 glass slides and cardboard mounts; 5-inch, f/3.5 anastigmat color-corrected lens, helical focusing; 300-watt lamp; blower cooled; rear switch; one-piece aluminum casting; single slot Uni-Way threading; sliding cam tilting device; operates from left or right side; coated optics. Price, $64.50; slide changer extra. Accessories include 3, 7, and 10-inch lenses; rewind take-up, $5.95; Airequipt automatic slide changer, $16.95; semi-automatic slide changer, $6.50; horizontal transverse slide carrier, $3.95; deluxe case which accommodates Airequipt changer installed, $12.50; standard case, $7.50.

Model AAA-2. Takes 2x2 glass slides and cardboard mounts; single and double-frame 35-mm film strips;

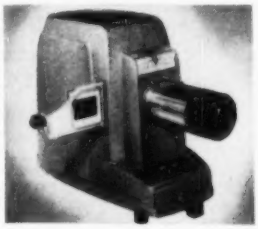


swivel projector head for vertical frame projection; 5-inch f/3.5 coated lens; helical focusing; 3, 4, 7, and 10-inch lens available; 300-watt T-10 lamp; natural draft ventilation; horizontal slide changer; sprocket-drive film advance; indexing adjustment for single or double frame; manual adjustment frame-centering; tilt lever. Price, $72.50; case, $7.50. Rewind takeup available as accessory.

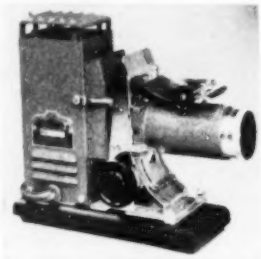
Skyline D. Takes 2x2 glass slides and cardboard mounts; all-metal; 5-inch f/2.9 coated lens; helical focusing; longer focal lengths available; line voltage 115, ac; 300-watt T-8½ lamp; blower-cooled; rear switch; semi-automatic slide carrier; automatic frame centering; sliding cam tilting device; 15 feet line cord; manuscript window; Riviera green, satin finish. Price, $78.70; case, $12.50.



Skyline C. Same as Skyline D, except with 5-inch f/3.5 coated lens; f/2.9 lens, and f/3.5 lenses in longer focal lengths available. Price, $68.20; case, $12.50.



Skyline B. Takes 2x2 glass slides and cardboard mounts; all metal; 5-inch f/4 coated lens; helical focusing; line voltage 115, a-c; 300-watt lamp blower-cooled; rear switch; horizontal traverse slide carrier; automatic frame centering; sliding cam tilting device; Riviera green, Hammerloid finish. Price, $52.45; case, $12.50. Accessories include f/2.9, f/3.5 lenses, semi-automatic slide changer.



Model Q-7. Takes single-frame film strips; 3-inch anastigmat coated lens; slip-in style threading; 150-watt lamp; a-c or d-c; convection cooled; adjusting tilt lever; green with black base. Price, $42.50. Accessories include 2- or 4-inch lenses; rewind take-up; $5.95; 9x11 folding translucent screen, $7; deluxe case which accommodates projector, screen, literature, 10 filmstrips, $9.95; standard case, $5.95.

Skyline A. Takes 2x2 glass slides and cardboard mounts; all metal; 5-inch, f/4 coated anastigmat lens; helical focusing; 115-volt a-c; 200-watt lamp; convection cooled; rear switch; horizontal transverse slide carrier; automatic frame centering; elevating device; Sea green wrinkle finish; 10-foot cord. Price, $34.75; case $7.95; deluxe case which accommodates Airequipt automatic changer installed, $12.50. Accessories include f/2.9, f/3.5 lenses; semi-automatic slide changer.

S.V.E. International. A gasoline-kerosene burning projector for 2x2 glass slides and cardboard mounts, and single and double frame 35 mm strip film; rotating projection head;

horizontal slide carrier with adapter; coated 5-inch f/3.5 lens; 3, 4, and 7-inch lenses available; illuminated by Coleman lamp; burns from 10 to 12 hours without refilling. Price, $79.50; case, $19.95. Rewind takeup available as accessory.

MFR. Society for Visual Education Inc.

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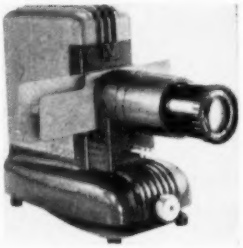
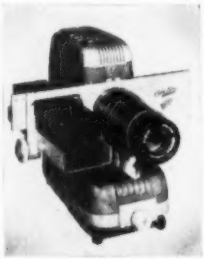
TDC VIVID



Model A-1. Takes 2x2 glass slides and cardboard mounts; coated 5-inch anastigmat lens; helical focusing; 150-watt T-8 lamp; a-c, d-c operation; convection cooling; self-centering shutter-type slide carrier; spring tilt adjustment. Price, $34.75 inc. tax; case, $7.50. Accessories include Selectron Automatic and Selectron-Semimatic Slide changers, Selectrays, etc.

Model A-2. Similar to Model A-1 but has deluxe base; uses 200-watt T-8 lamp; convection cooled. Price, with manual changer, $38.75 inc. tax; with Selectron-Semimatic (illustrated), $48.75. Convertible to Model A-3 Accessories same as A-1.

Model A-3. Identical to Model A-2 except has blower-cooling unit in base; for a-c use only. Price, with



manual changer, $48.75 inc. tax; with Selectron-Semimatic, $58.75. Accessories same as for Model A-1.

Model AS. Takes 35-mm single frame strip; 5-inch coated f/4 anastigmat lens; helical focusing; condensers; heat filter; 150-watt T-8 lamp; a-c or d-c use; convection cooling; spring tilt adjustment; glass pressure plates; push-in threading; auto-

Manufacturers' and distributors' addresses begin on page 194

matic framing. Price, $39.75; case, $7.50.

Model B. Takes 2x2 glass slides and cardboard mounts; coated 5-inch f/3.5 anastigmat lens; roller-bearing focusing; 4, 6, and 7½-inch lenses available; 150-watt T-8 lamp; a-c, d-c use; convertible to 300 watts; convection cooling; shutter-type carrier; self-centering; feeds from right side; twin pointer apertures; positive lock tilt control. Price, with manual changer, $44.50, inc. tax; case, $9.50. Accessories include fan cooling unit for $12.50. Price, with Selectron Automatic Slide Changer illustrated with Selectray to hold 30 slides for forward or reverse projection, $54.50; additional Selectrays, $1.00, $1.50; filmstrip attachments, $18.50, $29.50.

Model BSC. Takes 35-mm single, double frame filmstrip; 2x2 in. glass or cardboard slides; 5-in. coated f/3.5 anastigmat lens; helical focusing; condensers and heat filter; 200-watt T-8½ single contact lamp in adjustable socket; a-c or d-c; convection cooling; positive tilt control at rear; push-in threading; automatic framing; film rewind. Price, with slide changer, $66.50; case, $9.50 and $15.

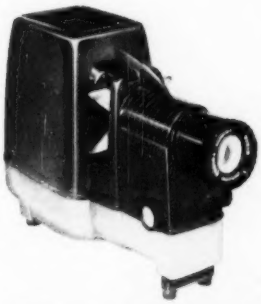
Model C. Similar to Model B except wiring and condenser system; 300-watt T-10 lamp for a-c or d-c use. Price, with manual changer, $54.50, inc. tax; case, $9.50. Accessories same as for Model B.

Model DSC. Same as model BSC but has 300-watt T-8½ single contact lamp and a-c blower cooling. Price, including slide changer, $79.50.

Deluxe Model D. Takes 2x2 in. glass slides and cardboard mounts; coated 5-inch f/3.5 anastigmat lens with internal anti-reflection baffles; roller-bearing focusing; 300-watt T-8½ lamp in adjustable socket; double

condenser; heat filter; a-c blower cooling; center balanced tilting with rear control. Price on request.

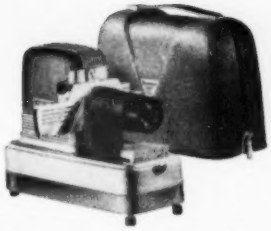
Model D. Similar to Model C but has new maximum-efficiency condenser system, 300-watt T-8½ lamp, and high-speed blower-cooling unit in base; for a-c use only. Price, with manual changer, $66.50, inc. tax; case, $9.50. Accessories same as Model B.



Headliner. Takes 2x2 in. glass slides and cardboard mounts; 5-inch coated anastigmat lens with helical focusing; heat filter condenser system; 200-watt T-8 lamp; a-c only; blower cooling; feed-through slide carrier; micro-tilt adjustment. Prices, $37.50; case, $6.

Mainliner 300. Takes 2x2 glass slides and cardboard mounts; 5-inch f/3.5 coated lens; 300-watt T-8½ lamp; a-c use only; blower cooled; frame centering; shutter-type manual slide changer as regular equipment (not shown); micro-tilt adjusting. Price, $58.50. Accessories include Selectron Semimatic (illustrated) and Selectron Automatic slide changers, Selectrays, cases.

Showpak 300. Takes 2x2 in. glass slides and cardboard mounts; 5-inch coated anastigmat lens with helical focusing; condenser and combination head filter-condenser system; 300-watt T-8½ lamp in adjustable socket; 105-125 volt 50-60 cycle a-c operation mounted; blower cooling; built-in slide file; manual slide changer; micro-tilt adjustment. Price, with case, $54.50. Accessories include

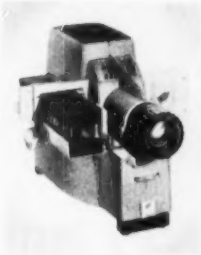


other lenses, slide changer, and cases.

Model MS. Similar to Model AS but had 300-watt T-8½ single contact lamp; a-c blower cooling; 5-inch f/3.5 coated anastigmat lens; micro-tilt adjustment. Price, $59.75; case, $9.50.

Model RN. Takes 2¾x2¾ glass slides; takes 2x2 glass slides and cardboard mounts; 6-inch coated lens; micro-focusing; 150-watt T-8 lamp for a-c or d-c; convection cooling; shutter-type carrier; self-centering; feeds from right side; twin pointer apertures; positive lock tilt control; includes auxiliary condenser for use when maximum illumination of 2x2 slides is desired. Price, $64, inc. tax; price of case, $9.50. Convertible to Model RO. Accessories include fan cooling unit, $12.50; Selectron Automatic, $25; Selectron-Semimatic, $12.50.

Model RO. Identical to Model RN except has 300-watt T-10 lamp for a-c or d-c use. Price, $74, inc. tax. Same accessories as Model RN.



Streamliner 500. Takes 2x2 glass slides and cardboard mounts; all metal construction; coated 5-inch f/3.5 lens; helical focusing; 105-120 line voltage; 500-watt T-10P lamp; switch in rear; a-c blower cooling; Selectron Semi-matic slide changer inc. trays; micrometer tilting; accepts TDC De Luxe manual slide changer; or Selectron automatic. Price, $84.50; case, $16.50.

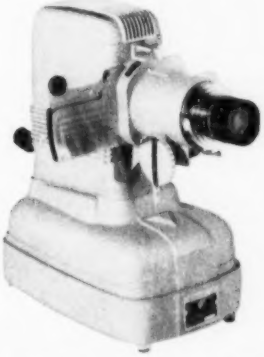
Professional 750. Features similar to 500 model; equipped with 750-watt lamp; 1000-watt may be used; universal type centrifugal blower for a-c use only. AC-DC model on special order. Price, 2x2 model with 5-inch lens, $150; 2¼x2¼ "Duo" model with 6-inch lens, $170; case, $15.

Streamliner 300 Duo. Takes 2x2 in. glass or cardboard slides and 2¼x2¼ in. slides in 2¾x2¾ glass mounts; 5-inch coated f/3.5 anastigmat lens with helical focusing; 300-watt T-8½ lamp in adjustable socket; lens, blower and accessories same as streamliner 500; with 2¼x2¼ in. changer. Price, $69.50; case, $9.50; case with extra space, $15.

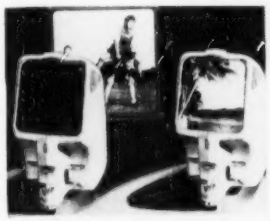
Streamliner 500 Duo. Same as Streamliner 300 Duo, but has 500-watt T-10 lamp (smaller lamps may be used), 6-inch coated f/3.5 anastigmat lens; both 2x2 in. and 2¼x2¼ in changers. Price, $89.50.

Model RP. Identical to Model RO except it has blower cooling unit in base; for a-c use only. Price, $86.50; case, $9.50, inc. tax.

Model 500 SC. Similar to model BSC but has 500-watt T-10 lamp and powerful a-c blower housed in larger base. Price, with changer, $97.50; case, $15 and $20.



Professional 500. Takes 2x2 glass slides and cardboard mounts ("Duo" model takes 2¾x2¾ mounts, and 2x2 mounts); coated 5-inch f/3.5 anastigmat lens (6-inch lens on 2¼x2¼ model); 4, 5, 6, and 7½-inch lenses available; 500-watt lamp; axial flow cooling fan; a-c use only; prevue light; roller-bearing focusing, slide carrier, pointer apertures; tilt control same as in Model B. Price, 2x2 model, $99.50; 2¼x2¼—2x2 "Duo" model, $119.50; case, $15. Accessories include Selectron-Automatic and Selectron-Semimatic changers, filmstrip attachments, etc.



Project-or-View. Combination table viewer and projector; 2x2 in. slides in glass or cardboard mounts; viewing glass 6¼x6¼ in.; conversion to projector by opening rear of viewer; 3-inch f/2.9 anastigmat lens. Price, standard 150-watt model, a-c or d-c, $74.50; Deluxe 200-model with a-c blower cooling, $84.50; case, $15.

MFR., Three Dimension Co.

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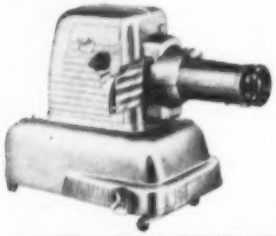
TAYLOR STEREO D-52

Manufacturers' and distributors' addresses begin on page 194

Takes 1⅝x4-in. glass slides; fabricated steel chassis; covered wood case; can be used as stereo projector by removing back; 2-inch f/2.6 lens; knob control focusing; 200-watt bulb, T-8; convection cooling; two-position slide carrier. Price, $82.50.
MFR., Taylor Industries, Inc.

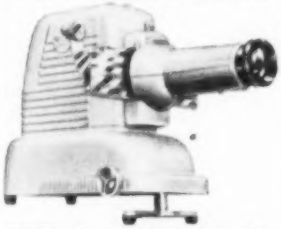
VIEWLEX

Model V-25C. Takes 2x2 and "Bantam" slides in all type mounts and 35-mm filmstrips, single and double frame, horizontal and vertical; push-in filmstrip threading; positive framing; automatic centering; 110-120 volts a-c; 500-watt lamp; motor cooled; 5-inch, coated, color corrected, f/3.5 lens; accepts automatic changers. Price, $104.75; case, $11.90. Also available are 3, 7, 9, and 11-inch, f/3.5 lenses.



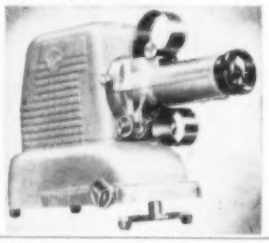
Model V-35. Takes 2x2 and "Bantam" cardboard, glass or metal slides; 110-120 volts; a-c; 500-watt lamp; motor cooled; 5-inch, coated, color corrected f/3.5 lens; twin action slide carrier; slides automatically centered; accepts automatic changers. Price, $77.95; case, $11.90. Also available are 3, 7, 9 and 11-inch, f/3.5 lenses.

Model V-33. Takes 2x2 and "Bantam" glass, cardboard and metal slides; 300-watt lamp; motor cooled;



110-120-volt; a-c; twin-action slide carrier; 5-inch, coated, color corrected, f/3.5 lens. Accepts automatic changers. Price, $59.95; case, $9.90. Lenses available are 3, 7, 9 and 11-inch, f/3.5.

Model V-3. Same as V-33, but equipped with 150-watt lamp; a-c or d-c; convection cooled; all accessories available. Price, $35.95; case, $9.90.



Model V-2C. Same as V-22C but is equipped with 150-watt lamp; a-c or d-c; convection cooled. Price, $72; case, $9.90. All accessories available.

Model AP-7CT. Takes 2x2 and "Bantam" slides in all type mounts and 35-mm filmstrips; push-in filmstrip threading; take-up spool; rotating head for vertical and horizontal projection; single and double frame; 5-inch, coated, color corrected, f/3.5 lens; 110-120 volts a-c; motor cooled; 300-750 watt lamp. Price, $245, including case.

Model V-44S. Takes single frame filmstrips; push-in filmstrip threading; filmstrip floats on ceramic-edged aperture plates; positive framing; 300-watt lamp; motor cooled; 110-120 volts a-c; 2 or 5-inch f/3.5 coated lens. Price, $53.25; case, $9.90. Also available is 7-inch, f/3.5 lens.

Model V-4S. Same as V-44S, but uses 150-watt lamp; a-c or d-c; convection cooled. Price, $9.25; case, $9.90. All accessories available.
MFR., Viewlex, Inc.

Model V-22C. Takes 2x2 and "Bantam" cardboard, glass and metal slides and 35-mm filmstrips, single and double frame; vertical and horizontal projection; push-in filmstrip threading; positive framing; motor cooled; 300-watt lamp; 110-120 volts; a-c; 5-inch coated, color corrected f/3.5 lens; accepts automatic changers. Price, $86.75; case, $9.90. Available also are 3, 7, 9 and 11-inch f/3.5 lenses.
MFR., Viewlex, Inc.

VIEW-MASTER

Projects View-Master seven-scene color reels only; 3-inch f/3 coated lens; 75-watt T-8 lamp; convection cooling; automatic centering; tilting device; double-mirror tilt reading; automatic film advance; built-in projection pointer throws arrow on screen. Price, $47.50; case, $5.
MFR. Sawyer's Inc.

VUAID

Takes 2x2 glass slides and cardboard mounts; metal construction; 4-inch f/3.5 lens; sliding focusing; line voltage 110-120 a-c, d-c; 100-watt S-11 lamp; convection cooling. Price, $10.95 including tax.
MFR., Bradfield & Bidwell, Inc.

WEIMET MODEL A DELUXE

Takes 2x2 glass slides and cardboard mounts; single and double-frame 35-mm film; 5-inch f/3.5 lens; apertures up to f/3.5; helical focusing; 150 watt bayonet-type lamp; self-centering slide carrier; tilting device; automatic frame-centering. Price, $22.50.
MFR., Weimet Film Co., Inc.

ZETT 35

Takes 2x2 glass slides and cardboard mounts; 110 line voltage; coated 80-mm f/2.5 lens; dual carrier; all-metal construction; weighs 1¾ lbs.; case. Price, $76.50.
DIST., Willoughby's.

it's here!

the WORLD'S NEWEST COLOR FILM

McGregor "High Fidelity" Color Film to give you glowing, life-like beauty in your transparencies and movies.

Now, a new subtractive film offers wonderful improvements in brilliance, contrast, and color balance.

What a thrill you'll get when you first see your pictures on McGregor! Each hue, value, and chroma of the original scene is recreated in brilliant color. For natural flesh tones, shadow detail, rendition of subtle color tones, McGregor is unsurpassed.

Choose either OUTDOOR (A.S.A. 10) or INDOOR (A.S.A. 16) type film. You can use standard color and conversion filters designed for film of this type.

Processing of transparencies and movies is included in the price of McGregor film. Mail the exposed film to our laboratory and your pictures are returned ready for projection.

Modern equipment and methods assure the quality of McGregor color. They also mean a full color film at prices comparable to black-and-white.

Your dealer will have McGregor. Ask today for "The World's Newest and Finest Color Film."

35mm. 20-exposure cartridges	$2.79	Price
8mm. 25-ft. double rolls	3.49	includes
16mm. 100-ft. rolls	9.95	processing

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PRIMOFLEX

JAPAN'S NEWEST

Twin-lens Reflex
for 2¼" x 2¼" roll

TYPE II

KONIRAPID shutter: 1 to 1/500 sec. J. SIMLAR lens: f/3.5 75-mm anastigmat. Built-in magnifier. Automatic film stop.

TYPE IB

RECTUS shutter: 1 to 1/200 sec. & B. TOKO lens: f/3.5 75-mm anastigmat. Built-in magnifier. Automatic film stop.

J. OSAWA & CO., LTD.

5 GINZA NISHI 2-CHOME, TOKYO

EXPOSURE METERS

ACTINO C

Photoelectric type; metal construction; fits cameras with accessory shoe; for use with black-and-white, color film. Price, $24.95.
DIST., Alfa Photo Corp.

•

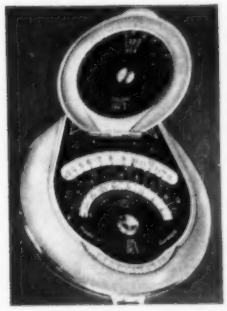
BERTRAM AMATEUR

Photoelectric type for still and movie cameras; daylight and tungsten light; measures reflected light; reads direct from f/2 to f/22; progresses in full stops; calibrated in ASA, Schneider, and Din ratings; exposure times from 4 minutes to 1/1600 sec.; lapel chain furnished. Price, $14.95.

CHRONOS

Photoelectric type for still and movie cameras; for daylight and tungsten light; measures reflected light; reads direct from f/1.4 to f/32, progressing by half stops; calibrated in ASA; exposure times from 30 seconds to 1/1000 sec.; snap-face lid completely encloses mechanism; extremely small. Price, $22.50.

CHROSTAR



Photoelectric type for still and motion pictures; ASA and Weston ratings; from 1/1600 sec to 4 minutes; from f/1.5 to f/22. Price, $24.95.
DIST., Willoughbys.

•

DeJUR DUAL PROFESSIONAL

Photoelectric type for still and motion pictures; by daylight and artificial light; measures reflected and incident light; reads direct from f/1 to f/45; ASA Exposure Indexes from .8 to 800; reads in 1/3 stops; exposure times from 120 seconds to 1/800 sec., automatic dial shift for incident or reflected light; red dot at 1/32 sec. All metal, die-cast, shock-resistant construction. Price, $23.95; eveready leather case, $2.25.
MFR., DeJur-Amsco Corp.

•

EXPOPHOT

Extinction type for still pictures; for daylight and tungsten light; measures reflected light; calibrated in ASA Exposure Index from 1.2 to 1000; from f/2 to f/32; exposure times from 30 seconds to 1/1000 sec.; reads direct; exposures progress by full stops. Price, $1.49.
DIST., Willoughby's.

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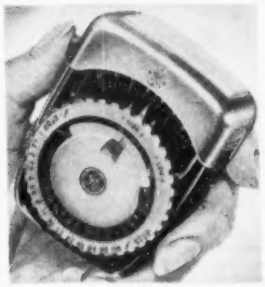
GENERAL ELECTRIC MODEL DW-68

Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected and incident light; removable hood for incident light readings by conversion from f/1 to f/45 progressing by 1/3 stops; ASA Exposure Indexes from .8 to 800; exposure times from 120 seconds to 1/800 sec.; reads directly in foot candles. Price, $19.95; case available for $2.

GENERAL ELECTRIC MODEL PR-1



Photoelectric type for still and movie cameras; by daylight and artificial light; measures reflected and incident light; reads direct by 1/3 stops from f/1 to f/128; ASA Exposure Indexes from .2 to 1600; exposure times from 120 seconds to 1/3000 sec.; cine speeds in frames per second; trident analyser; automatically shifts range from High to Low; for movies and stills on one dial. Price, $29.25; case available for $2.25.

GENERAL ELECTRIC MASCOT PR-30

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected light; reads direct in full stops from f/1.4 to f/32; calibrated in ASA system; two exposure speeds, 1/50 sec. for stills and 16 frames-per-second for movies; jeweled microammeter movement. Price, $15.25. Eveready case, $1.50.
MFR., General Electric Co.

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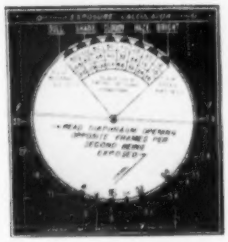
GROVER EXPOSURE CALCULATOR



Slide-rule type made of polished metal that attaches to either movie or still cameras; two separate models; one for still, and one for movie cameras; still type for daylight; calibrated in ASA, Weston, and G-E ratings; reads from f/1.9 to f/32; exposure times from 1/5 sec. to 1/400 sec.; installs on any 2-inch square surface. Price, $1.25 including tax.
MFR., Grover Photo Products.

HILBA COLOR LUX

Independent photoelectric cell, protected by long hood with 2 neutral density filters; for still and movie cameras; reads incident light up to 48,000 foot-candles, reflected light from 1 to 500 ASA; reads in 1/3 stops; exposure times from 64 seconds to 1/1000 sec.; movie speeds from 1 to 400 frames per second; determines gray scale values for B-W at rate of 1 to 30, for color at 1 to 5; reading determined by regulating built-in resistance unit; standard calibration can be individually changed. Price, $133.50.
DIST., Karl Heitz, Inc.

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HOME PORTRAIT METER

Device to be used with 32-page manual on floodlight positions and matching exposures for portraits; made of plastic. Price, $4.95.
MFR., Kanco Photo Corp.

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IDEAL

Photoelectric type for still and movie cameras; for daylight and tungsten light; measures incident light; reads direct by half stops from f/1.9 to f/22; calibrated in ASA system for emulsion speeds from 4 to 128; pointer indicates f/stop; fresnel light-collecting lens over photoelectric cell. Drop-front case included. Price, $9.95.
MFR., Federal Instrument Corp.

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IKOPHOT IIA

Photoelectric type for still and motion pictures; for daylight and arti-

Manufacturers' and distributors' addresses begin on page 194

ficial light; measures reflected and incident light; ASA calibration of emulsion speeds from 3 to 800; reads direct with apertures from f/1.5 to f/22; progresses in half stops from f/1.5 to f/5.6, in full stops from f/5.6 to f/22; exposure times from 60 to 1/1000 sec.; movie speeds available by conversion; plastic construction. Price, inc. eveready case, incident light attachment, and silk neckcord, $28.
DIST., Carl Zeiss, Inc.

•

KOLOR KALCULATOR

Slide rule type made of plastic-coated laminated material; primarily intended for user of 35-mm color film; calibrated in ASA ratings, progressing by half stops from f/2 to f/32; also serves as a film latitude guide, and as exposure guide for synchro-sunlight work. Price, 65 cents.
MFR., Laurel Macon Co.

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KODAK MASTER PHOTOGUIDE

Pocket-sized 32-page booklet containing 5 slide-rule dials, many tables and brief information on still photography under wide range of conditions. Price, $1.75.

KODAK CINE PHOTOGUIDE

Pocket-sized 32-page booklet containing 5 slide-rule type dials, tables and information on motion picture technique from exposure to story continuity. Price, $1.75.

KODAK COPYING DATAGUIDE

Slide-rule type; dial has dimensional scales for figuring proportional reduction and enlargement; scale for exposure factor for compensating for extended bellows on view-type cameras. Price, $.50.

KODAGUIDE DIALS

Movie Kodaguide. Pocket-sized, four-page chart and slide rule with two dials; for movies by daylight or artificial light; reads direct for Cine-Kodak films, black-and-white and color. Price, 25 cents.

Home Lighting Kodaguide. Pocket-sized "slide-rule" type card with dial; for still and movie cameras by

artificial light; for exposure of Kodak Super-XX film based on total wattage of home service lamps and average distance of lamps from subject. Price, 15 cents.

Kodaguide Snapshot Dial. Pocket-sized four-page card with two dials; for still pictures by daylight and artificial light; reads direct for Kodak films and reads directly for popular film and flashbulb combinations. Price, 25 cents.
MFR., Eastman Kodak Co.

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LEUDI 3

Extinction type for still and movie camera; for daylight and artificial light; measures reflected and incident light; reads direct by full stops from f/1 to f/32; ASA Exposure Indexes from 8 to 500; exposure times from 10 minutes to 1/1000 sec. Price, including case and tax, $2.15.
DIST., Mimosa American Corp.

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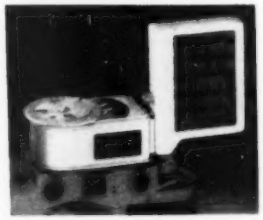
LEICA-METER



Photoelectric type for still cameras; for daylight and tungsten light; measures reflected light; reads direct from f/1.4 to f/22 in full stops; calibrated in ASA system; computes automatically; three measuring ranges, with exposure times from 120 seconds to 1/1000 sec.; clips on Leica cameras, or fittings having Leica accessory shoe; measuring element immune to mechanical shocks; photoelectric element detachable. Price, including carrying case, $24 including tax.
DIST., E. Leitz, Inc.

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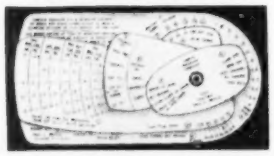
MARTIN COMPUTER



Circular slide-rule type; for still and motion pictures by daylight; two scales on each of four white Vinylite dials turning on one pivot; all normal shutter speeds, lens openings, ASA Exposure Index; brightness of subject, shade, incident, or reflected light; condition of sun for any time of day by months according to geographic latitude; for color and black-and-white film. Price, $1.50.
MFR., Paul S. Martin.

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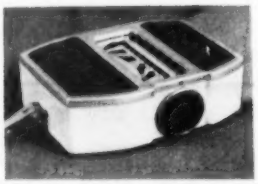
MINIREX II



For still pictures; photoelectric type; for daylight and artificial light; measures reflected light; ASA, Din calibration; direct reading; calibrated for emulsions speed of ASA 10 to ASA 100, f/2 to f/22, exposure times from 1/1000 to 120 sec.; exposures progress by full stops. Price, $9.95.
DIST., Saul Bower, Inc.

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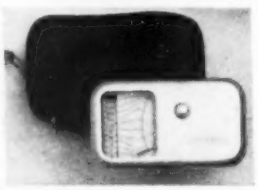
MINOX



For still and motion pictures; photoelectric type; for daylight and artificial light; measures reflected light; ASA and Din calibrations; reads direct for Minox camera; four separate scales for emulsion speed of 10 to 80 ASA. Price, $21.45.
DIST., Minox, Inc.

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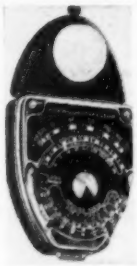
NORWOOD DIRECTOR



Photoelectric type for still and movie cameras; for daylight, artificial light, and flash exposures; measures incident light, and reflected light with accessory Photogrid; photoelectric cell mounted in swivel head; calibrated in ASA; reads by conversion on calculator dial; from f/1.4 to f/45 progressing by 1/3 stops; calibrated from emulsion speed of .1 to 1000; exposure times from 120 seconds to 1/1200 sec.; leatherette-covered steel case. Price, $32.95 including tax, including Photodisk for copying and balancing lights in studio; Photogrid for emergency exposure determination and brightness range control.

NORWOOD FLASHRITE

For still picture flash exposures; special rangefinder device; plastic case; metal computer dial; ASA calibration; reads direct; calibrated from emulsion speed of 4 to 200; from f/1.4 to f/45; exposure times from 1/25 to 1/200 sec.; exposures progress by 1/3 stops. Price, $12.95.
MFR., Director Products Corp.

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PHOTO COMPUTER

A pocket-sized aid to solve quickly exposure problems of still and movie pictures. The computer covers filter factors, film emulsion speeds, shutter openings, motor speeds and lens diaphragm openings; these are all variables dependent on one another. It is also provided with a lens calculator by which the depth of field for most standard lenses at various stops and focal distances may be found.
MFR., Bardwell & McAlister, Inc.

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PHOTOELECTRIC PATROL

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected light; can be used with or without expansion band; calibrated with ASA Exposure Indexes from 3 to 200; reads direct by simplified superimposed computer

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dial; from f/1.4 to f/45 by 1/3 stops; exposure times from 8 sec. to 1/800 sec. midget design, curved to fit wrist. Price, DeLuxe model, $16.50; Aristocrat model, $24.
MFR., Warren Mechanisms.

POLAROID G-E

Photoelectric type for still pictures; for daylight and artificial light; measures reflected light; midget meter with scale markings matched to Po-

laroid Model 95 camera or Polaroid Pathfinder camera exposure numbers; 5 separate scales for different film speeds; direct reading for Polaroid cameras; clips to cameras for use. Price, $14.25; eveready case, $1.50.
DIST., Polaroid Corp.

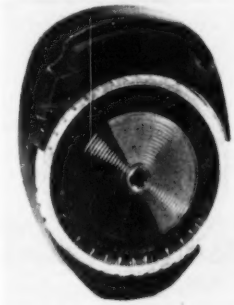
PRIX

For still and motion pictures; photoelectric type; for daylight and artificial light; measures reflected light; ASA and Din readings; reads direct; calibrated from ASA 3 to 200; from f/1.4 to f/45; exposure times from 1/2100 to 120 sec.; exposures by full stops. Price, $12.95.
DIST., Interstate Photo Supply Corp.

PULLIN

Photoelectric type meter for still and motion pictures; for daylight and artificial light; calibrated from emulsion speed of 6 to 200; from f/1.4 to f/45; exposure times from 2 hours to 1/1000 sec.; exposures progress by full stops. Price, $14.95 including tax.
DIST., General Photographic Supply Co.

REBIKOFF

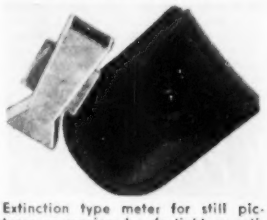


Color temperature meter with 2 photoelectric cells; for balancing blues and reds; direct readings in Kelvin degrees with accuracy within 1.5 to 2.5%. Price, with case and metal filter chart, $49.50.
DIST., Karl Heitz, Inc.

RUSH PHOTO GUIDE

Pocket-sized chart for day and artificial light exposures, flash and floodlight; slide rulotype. Price, $1.50.
MFR., Eraser Co., Inc.

SAYMON-BROWN



Extinction type meter for still pictures or movies; by daylight or artificial light; tubular construction; calibrated in Weston system; reads direct; with apertures from f/1.5 to f/16 by full stops; shutter speeds from 1 second to 1/1000 sec.; fits camera shoe which is available as accessory for 25 cents. Price, including leather case, $2.05.
DIST., Burleigh Brooks Co.

SKAN

Standard Model Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; accessible zero adjustment; patented method of calibration; 2-element computer, on back of meter; has range from f/1.4 to f/32 progress by half stops; ASA Exposure Indexes from .4 to 800; exposure times from 30 seconds to 1/1000 sec. Price, including case, $14.95.

View-finder Model Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; twin scales, with same restricted light acceptance angle for both high and low light ranges; accessible zero adjustment; ASA Exposure Indexes from .3 to 800; 3-ele-

ment computer on back of meter, has range from f/1 to f/45 progressing by 1/3 stops; exposure times from 120 seconds to 1/1200 sec.; has camera-type viewfinder. Price, including case, $22.95.
MFR., G-M Laboratories, Inc.

SIXTOMAT I

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected and incident light; reads direct from f/1.4 to f/45 in full stops; calibrated in ASA system for emulsion speeds from 6 to 400; exposure times from 30 seconds to 1/1000 sec.; automatic calculation of correct f/stop for every shutter speed; reading retained until next use; sliding metal curtain encloses mechanism. Price, with chromium neckstrap, $28.50.

SIXTOMAT

Same features as Sixtomat I, except does not measure incident light. Price, with stainless steel neckstrap, $25.
DIST., Mitropa Corp.

SUNDICATOR

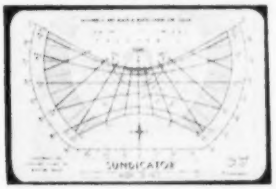


Chart for getting position of sun for best photographic work throughout the year; gives position of sun, direction of light. Price, $.50.
MFR., Crocker Films, Inc.

S.E.I. EXPOSURE PHOTOMETER

Photoelectric and extinction type for still pictures, by daylight and artificial light; measures reflected light; cylindrical construction with eyepiece; all metal; uses one flashlight cell and photocell; calibrated in ASA Exposure Indexes; reads direct footlamberts; exposure times from 2 hours, 47 minutes to 1/500,000 sec.; can be used as a densitometer; has a relative density scale for the direct measurement of transmission and reflection densities. Price with case, $170.
DIST., The Zoomar Corp.

SWISS LUX 2

Photoelectric type for still and movie cameras; daylight and artificial light; measures reflected and incident light; reads direct from f/1.4 to f/32, in 1/2 stops; ASA calibration; exposure times from 64 seconds to 1/1000 sec.; movie speeds from 8 to 32 frames per second; attached leather case. Price, $19.95 with case.
DIST., Karl Heitz, Inc.

WIRGIN

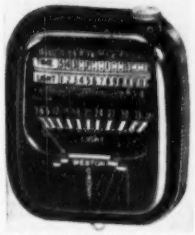
Extinction type for still and motion pictures; for daylight and artificial light; measures reflected light; metal construction; folds open to operating position; emulsion speeds from 2 to

100; from f/2 to f/32; exposure times from 8 seconds to 1/250 sec.; exposures progress by full stops. Price, $2.15 including tax and case.
DIST., Camera Specialty Co., Inc.

WESTINGHOUSE RAPID FLASH CALCULATOR

Pocket size exposure guide for flash photography; does not use guide numbers; gives direct reading for exposure; data covers all popular black-and-white and color films. Price, $.10.
MFR., Westinghouse Electric Manufacturing Co.

WESTON CADET



Photoelectric type for still and mo-

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tion pictures; for daylight and artificial light; measures both incident and reflected light; calibrated in Weston system from 4 to 125 emulsion speed; reads by conversion: from f/2.8 to f/16; exposure times from 5 seconds to 1/800 sec.; exposures progress by 1/3 stops; can be used with Polaroid Land camera; equipped with zero corrector. Price, $18.28 including tax.

WESTON MASTER II UNIVERSAL 735

Photoelectric type for still and movie work, by daylight and artificial light; measures reflected light; double range for low and high light intensities; reads direct in 1/3 stops from f/1.5 to f/32; calibrated in Weston

system from .3 to 800; exposure times from 100 seconds to 1/1200 sec.; very sensitive to low light and has a narrow acceptance angle for outdoor work; calculator has color control and black-and-white control features. Price, $27.63.

WESTON MASTER II CINE 736

Photoelectric type for movie work, by daylight and artificial light; measures reflected light; double range for low and high light intensities; reads direct in half stops from f/1 to f/22; calibrated in Weston system from .1 to 800; exposure times from 6 frames per sec. to 96 frames per sec. Price, $27.63. The Weston Invercone Adapter for measuring incident light is available as an

accessory for Weston Master models, $2.40.

MFR., Weston Electric Instr. Corp.

EXPOSURE METERS for printing and enlarging

DAYTON ROGERS STRIP TEST EXPOSURE METER

Slide-rule type; all metal construction; determines correct exposure time for enlarged prints by taking five different tests from the same point of interest on the negative; handles test strips up to 3½x5; sets flat on easel board. Price, $3, including tax.

MFR., Dayton Rogers Mfg. Co.

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KODAGUIDE DIALS

Kodak Densiguide. Slide-rule type; pocket-sized card with film density step tablet; estimates gray-scale density on suitably prepared negatives; useful for making separation negatives and color prints. Price, $1.

Kodak Enlarging Dataguide. Slide-rule type; includes a swatch chart of Kodak photographic paper showing surfaces, weight, color and image tone; card has dial relating magnification, lens aperture, paper, and exposure time. Price, $.50.

Kodak Dye Transfer Dataguide. Slide-rule type; card has dials relating magnification, density, lens aperture, and exposure time; determines exposures according to density readings; helpful in color printing with Kodak Dye Transfer Process. Price, $1.

MFR., Eastman Kodak Co.

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MAGNEPHOT DENSICHRON

Kalmus-Striker Magnephot system for still pictures by daylight or artificial light; measures incident light; meter contained in metal case-housing, which also includes all dials and controls; sensitivity controls provide 4 decades by the range switch with 1 decade continuous and overall control of 10,000 to 1; cell unit connected to meter by flexible cable; maximum light sensitivity is 10 micro lumen; equipped with blue sensitive light probe; red sensitive probe available; furnished with six measuring apertures, cone, retaining ring, and opal glass disk; for use only on 115-volt, 60-cycle a-c. Price, complete, $225. For use as exposure meter, as printing exposure meter, and as retouching guide.

MFR., W. M. Welch Scientific Co.

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SPOT-O-MATIC MODEL 6A

Electrical; light balancing photometer; automatic calibrations; optical density wedges; permanent plastics spot; operates on 110-125 volts, a-c, or d-c; gives exposure time, paper contrast, and tells whether negatives are over- or underdeveloped; for use with all enlargers and any type of projection paper. Price, $11.24, including tax.

MFR., Kinnard Co.

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WESTON 877 PHOTOGRAPHIC ANALYZER

Electric; operates on 105-120 volts, a-c, or d-c; uses photoelectric cell; portable combination illumination meter and transmission densitometer; illuminated scale calibrated to read either illumination or density; supplied with a calculator, step wedges, gray scale, plotting paper, a multiplier disc for high light intensities, and an instruction book; determines exposure time for printing and making separation negatives; determines the gamma of development; the speed of papers and sensitized material in terms of the users equipment and technique. Price, $125.

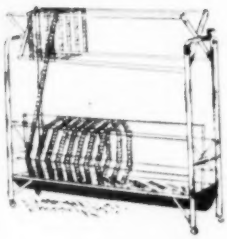
MFR., Weston Electrical Inst. Corp.

MOVIE FANS

SAVE WITH BULK FILM

SAVE MONEY Up to 50%

SAVE TIME Process Film in Less Than 1 Hour



"Do it Yourself"—the modern idea in movie making can be applied as easily to home processing of movie film as to title making. Superior developing tanks and supplies are amazingly simple to use. They make your hobby more enjoyable and far more economical.

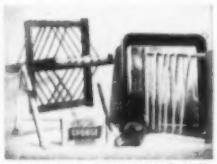
SUPERIOR DELUXE CINE REEL

has everything you need to develop your movie film. Reel holds 110 ft. of 16mm or 8/8mm film. Drying rack is on same frame as developing reel. Compact—16" x 26" x 30" high. Shipping wt. 18 lbs. Price complete with tray, formulae and instructions f.o.b. Chicago $19.95

SUPERIOR 8/8mm and 16mm BULK FILM

You save money two ways with Superior Bulk Film. First there is **no excise tax** on bulk film! Second, the price does **not** include any processing charge. By processing it yourself you save up to 50%. Take more movies for less! Not war surplus or outdated. Superior Bulk Film is **fresh** fine grain film made by DuPont, Speed Rating ASA 16.

8/8mm 200 ft. $4.50
16mm 200 ft. $3.85



JUNIOR PROCESSING KIT

Complete with instructions. F.o.b. Chicago $6.50

JUNIOR PROCESSING KIT

Top value in low-priced field. A complete home processing unit. Developing rack holds 30 ft. double 8mm, 16mm or single 8mm film. Drying rack holds 50 ft. Chemical tray holds 1 gal. chemicals. Shipping wt. 10 lbs.

MORSE G-3 TANK

For daylight developing of 8/8mm, 16mm or 35mm film. Tank holds 100 ft. Tank of acid-proof, molded bakelite. All metal parts stainless steel. Light-tight cover. Automatic agitation. Shipping wt. 8 lbs. f.o.b. Chicago $22.50

SUPERIOR REVERSAL CHEMICALS

In powder form. Just add water. Easy to use.

1 gallon set (complete) .. $2.90
½ gallon set (complete) .. 1.80

Please add postage.

ORDER NOW! Satisfaction Guaranteed!

Send for **FREE** home processing manual and catalog on Bulk Film, home processing equipment and accessories. All sold on a money back guarantee.

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"picture" it as you see it!

NOW TAKE "COME TO LIFE" PICTURES IN THRILLING THREE DIMENSIONS... easily... confidently with the new View-Master Personal Stereo Camera. Imagine those cherished scenes of family, friends, vacations captured in natural color and depth... at less than snapshot cost! For a picture thrill, ask your camera dealer to show you stereo photos made with the new Personal Stereo Camera.

VIEW-MASTER personal stereo camera

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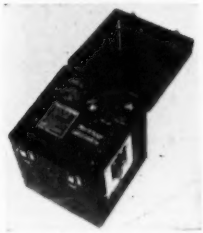
ELECTRONIC FLASH UNITS

AMERICAN CINEFOTO

RAY-O-FLASH DE LUXE TRIPLE UNIT



Semi-portable unit weighing 12 lbs.; a-c only for use with all types of shutters; adapted for focal-plane shutters; Amglo Sunflash V-8 tube; 25,000 flashes per tube at 6500 K color temperature; 1/15000 flash duration; with 7 sec. interval between flashes; 14-inch parabolic reflector with 50-watt focusing lamp; 15 feet of cord; stand; 1, 2, or 3 light operation. Price, with 1 light, $140, tax included; with 2 lights, $185; with 3 lights, $230. Available accessories include booster pack, light stands, Fresnel photo-spot, giraffe boom light, photo cell.

MFR. American Cinefoto Corp.

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AMERICAN SPEEDLIGHT

ASCOR MIDGET AXC

Portable unit, weighs 6 lbs.; dry cell battery operation only; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-118 flash tube; 6500 K color temperature; 1/1500 sec flash duration; 3 sec interval between flashes; 5" Alzac reflector; 6 foot cord. Price, $74.50; batteries, $15.90.

ASCOR MIDGET CXC

Semi-portable unit, weighs 2½ lbs.; a-c operation only; maximum input 50 watt-seconds; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-118 flash tube; 6500 K color temperature; 1/1500 sec flash duration; 3 sec interval between flashes; 5" Alzac reflector; 6 foot cord. Price, $89.50.

ASCOR MIDGET BXC

Portable unit, weighs 4 lbs. including batteries; dry cell operation only; maximum input 50 watt-seconds; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal plane cameras; FT-118; 6500 K color temperature; 1/1500 sec; 3 sec interval between flashes; 5" Alzac reflector; 6 foot cord. Price, $98.15, with batteries.

ASCOR MIDGET CYA

Semi-portable unit, weighs 4 lbs.; maximum input 100 watt-seconds; a-c operation only; for use with built-in 0 delay synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-118 flash tube; 6500 K color temperature; 1/1000 sec flash duration; 5 sec interval between flashes; 5" Alzac reflector; 6 foot cord. Price, $100.

ASCOR MIDGET AYA

Portable unit, weighs 7¼ lbs. including batteries; dry cell operation only; maximum input 100 watt-seconds; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-118 flash tube; 6500 K color temperature; 1/1000 sec flash duration; 3 sec interval between flashes; 5" Alzac reflector; 6 foot cord; accessories available. Price, $100.90, including batteries.

ASCOR MIDGET 100-2

Portable unit, weighs 6½ lbs. including battery; operates on wet cell and a-c; maximum input 100 watt-seconds; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-218 flash

tube; 6500 K color temperature; 1/1600 sec flash duration; 8 sec interval between flashes; 5" Alzac reflector; 6 foot cord. Price, $136, including battery.

ASCOR MIDGET 200-2

Portable unit, weighs 11 lbs.; wet cell; maximum 200 watt-seconds input; charger included in unit; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-218 flash tube; 6500 K color temperature; 1/1600 sec flash duration; 8 sec interval between flashes; 5" Alzac reflector; 6 foot cord. Price $176; battery, $13.50.

ASCOR MB-100

Portable unit, weighs 7 lbs. including battery; can be operated on wet cell battery and a-c; charger included; for use with 0 delay built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-218; 6500 K color temperature; 1/1500 sec flash duration; 8 sec interval between flashes; 5" Alzac reflector; 6 foot cord; carrying case with space for camera accessories. Price, $176.50, including battery.

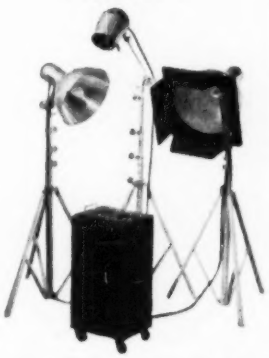
ASCOR MIDGET DE2H

Semi-portable unit, weighs 6½ lbs.; operates on a-c only; maximum input 150 watt-seconds; for use with built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-118 flash tube; 6500 K color temperature; 1/1500 sec flash duration; 5 sec interval between flashes; 5" Alzac reflector; 10 foot cord; carrying case with room for lights and stands. Price, $292.50.

ASCOR 350 C

Studio unit, weighs 38½ lbs.; a-c operation only; maximum input 350 watt-seconds; for use with built-in 0 delay synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT-403 and FT-220; color temperature 6500 K; 1/5000 sec flash duration; 5 sec interval between flashes; 14" studio type reflector with modeling lights; 25 foot cord. Price, $515 with three lights.

ASCOR 1000 C



Studio unit, weighs 109 lbs.; a-c operation only; maximum input 1000 watt-seconds; for use with built-in synchronized shutters with 0 delay, mechanical synchronizers, and focal-plane shutters; FT-200 and FT-403 flash tubes; 6500 K color temperature; 1/3000 sec flash duration; 12 sec interval between flashes; 14" studio type reflector with modeling lamps; 25 foot cord. Price, $795, including three lights.

ASCOR SUNLIGHT 3200

Semi-portable, studio unit operating on a-c only; for use with built-in synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; flash tube FT-503; 6500 K color temperature; 14" Alzac reflector with modeling lamps; 25 foot cord; makes possible any power to 30,000 watt-seconds and any number of lights. Price, $2,580, complete with one light and four condenser units.

MFR., American Speedlight Corp.

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AMGLO

D-100

Portable unit, weighs 8 lbs.; two spill-proof, interchangeable storage batteries; instant triggering for 0 delay shutters; built-in adjustable time delay for others; usable with focal plane shutters; uses 1 or 2 low-voltage Amglo 56J2Z flashtubes; more than 10,000 flashes per tube; color temperature 6500 K; 100 watt-seconds of power; interval between flashes 5 sec.; flash duration 1/1250; 1/2500; plastic case. Price, $106.50; T-120-M camera light with tube, $44.50; T-120-LD extension lights with tubes, $40.50 each; accessories include battery charger; shutter cords; lamp extension cables; flashgun and lamp stand mounts; plastic diffusers; camera brackets.

STANDARD DC-2552-B

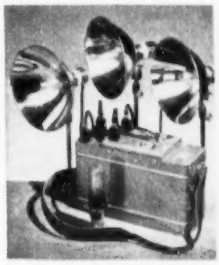
Portable unit, weighs 12 lbs.; 110 watt-seconds; interchangeable, spill-proof batteries; for use with solenoid synchronized shutters, including focal plane; uses 1 or 2 Amglo 5804X self-ionizing flashtubes; two units may be connected together for double power and more lights; flash duration, 1/10,000; 1/5000 sec; interval between flashes 12 sec; up to 400 flashes from one battery charge. All models of 255 series have inter-conversion features. Unit price, factory wired and tested, $102.50. Unassembled and unwired, $87.15. Accessories include E-255-R camera light with tube, $30; B-255 flashgun adapter with tube, $18.30; E-255-L extension light with tube, $28; battery charger; 15 foot extension cables; camera brackets; plastic diffusers; shutter cords. Accessories provided only in completed form.

AMGLO DC-2552-AB STANDARD PORTABLE

Similar to above, except has half power, full power switch. Unit price, $108.50.

STANDARD DC-2554

Portable unit, weighs 12½ lbs.; 110 watt-seconds; uses oil capacitors; interchangeable, spill-proof storage batteries; for use with synchronized shutters, including focal plane shutters and solenoid; two units may be connected together for double power; uses Amglo 5804X self-ionizing flashtube; more than 10,000 flashes per tube; 6500 K color temperature; 1, 2, 3 or 4 lights can be used; flash duration: 1/5000; 1/2500; 1/1000; interval between flashes 12 sec; up to 400 flashes from one battery charge.



Price, $116; accessories include E-255-R camera light with tube, $30; E-255-L extension lights with tubes, $28; B-255 flashgun adapter; battery charger; lamp extension cables; camera brackets; shutter cords; plastic diffusers. Unit also available unassembled and unwired for $98.60. Accessories provided only in completed form.

PORTA-LITE DC-120-2

Portable unit, weighs 9 lbs.; 120 watt-second; uses electrolytic capacitors; interchangeable, spill-proof, rechargeable storage batteries; for use with synchronized shutters, including focal plane and solenoid; uses 1 or 2 Amglo 56J2Z low-voltage, trigger-type flashtubes; more than 10,000 flashes per tube; 6500 K color temperature; flash duration: 1/850; 1/1700; interval between flashes 12 sec; up to 300 flashes from one battery charge. Unit price: $135.50; including flashgun, reflector

and flashtube. E-66-L extension light complete with 56J2Z flashtube; $36; accessories include battery charger; lamp extension cables; camera brackets; shutter cords; plastic diffusers. Also available in 200 watt-second; 80 watt-second; and 66 watt-second models. Units available unassembled and unwired at 15% less than listed prices. Accessories provided only in completed form.

D-200

Portable, 200 watt-second, low-voltage unit, weighs 10 lbs.; interchangeable, spill-proof batteries; instant triggering for X shutters; built-in time delay for others; uses 1, 2 or 3 Amglo 56J2Z flashtubes; more than 10,000 flashes per tube; 6500 K color temperature; usable at half power; interval between flashes, 5 sec and 10 sec; flash duration 1/650; 1/1300; 1/2500 sec; charge indicating light; plastic case. Price: $136.50; T-120-M

Manufacturers' and distributors' addresses begin on page 194

camera light with tube; $44.50; T-120-LD extension lights with tubes, $40.50 each; accessories include battery charger; lamp extension cables; shutter cords; camera brackets; flashgun and lamp stand mounts; plastic diffusers.

DAC 135-3

Portable unit, weighs 13 lbs.; spillproof, interchangeable storage batteries and a-c operation; instant triggering for X or O delay shutters; built-in time delay of 3 to 20 milliseconds for others and solenoids; uses 1, 2, or 3 Amglo 78R9D trigger-type flashtubes at 6500 K, more than 10,000 flashes per tube; oil capacitors provide power of 135 watt-second; flash duration: 1/4000; 1/8000; 1/12,000 sec.; charge indicating light; plastic case. Price: $136.50; T-135-M camera light with tube, $44.50; T-135-LD extension lights with tubes, $40.50 each; accessories include battery charger; lamp extension cables; camera brackets; shutter cords; plastic diffusers; lamp stand and flashgun fittings.

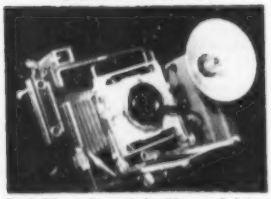
DAC 135-4

Portable unit, weighs 13 lbs.; two interchangeable, rechargeable, spillproof storage batteries; also a-c operation; for use with all types of synchronized shutters including focal plane and solenoid; uses Amglo 54-R4X self-ionizing flashtubes; more than 10,000 flashes per tube; 6500 K color temperature; 1, 2, 3 or 4 lights can be used; two units may be connected together for double power; flash duration adjustable: 1/8000; 1/4000; 1/200 sec; uses oil capacitors; operates at half or full power of 135 watt-seconds; interval between flashes 8 sec; plastic case; up to 400 flashes from one battery charge. Price, $142.50; accessories include S-135-F camera light with tube, $32; S-135-LB extension lights with tubes, $31; battery charger, $11.55; lamp extension cables; camera brackets; shutter cords; plastic diffusers.

MFR., Amglo Corp.

CARTER

CARTER 'LIFETIME'



Portable unit, weighs 30 oz.; 2 interchangeable, dry cell batteries; can be operated on a-c or batteries; for use with built-in synchronized shutter; can be adapted for all focal-plane shutters; for use with Kemlite DX flash tube; 50,000 flashes per tube; color temperature 6500 K; flash duration 1/100 sec.; interval between flashes 4 sec.; 5" reflector; 6 foot cord; 100 watt-seconds. Price, $49.95. Accessory dry battery pack, $39.95. Terminal box to hook up six units available.

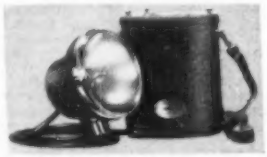
LIFETIME PROFESSIONAL

Portable unit, weighs 3 lbs., 10 oz. with batteries; 2 dry cell, interchangeable batteries; with adapter can be operated on either a-c or batteries; for use with built-in synchronized shutter; can be adapted for focal-plane shutters; for use with Kemlite DX flash tube; 50,000 flashes per tube; 6500 K color temperature; flash duration of 1/1000 sec.; 4 sec. interval between flashes; six units operate on one terminal box. Price: $59.95 for lightweight Professional 4-inch high model, less batteries; a-c adapter for Professional model $39.95.

DIST., Felix Distributing Co.

CELLUX

PHOTO FLASH UNIT SM2



Portable unit weighing 4½ lbs.; interchangeable, chargeable wet cell batteries; for use with shutters having built-in synchronization; can be adapted for focal-plane shutters on all cameras having built-in contacts; G-E FT110 flash tube; 10,000 to 50,000 flashes per tube; flash duration of 1/5000 sec.; interval between flashes 8 sec.; 6-inch plated plastic reflector; 5 feet of cord from power pack to reflector; 75-watt-second light output. Price, including battery charger, $109.50.

MFR., Cellux Electronic Corp.

CROWN LABS

MODEL 33

Unit weighs 10 lbs.; 33 watt-second input; operation on a-c or dry batteries; 1/1200 sec flash duration; flashes per tube, 30,000; 6500 K color temperature; to be used with Kemlite DX flash tube; interval between flashes 5 sec; 1 condenser. Price,

$19.95. Accessories available include reflectors; AC power pack, $12.95; slave adapter and booster pack.

MODEL 66

Same as above, but with 66 watt-second input; two condensers. Price, $29.95.

MODEL 100

Same as above, but with 100 watt-second input; three condensers. Price, $39.95.

MFR., Crown Labs.

DAVENPORT

DICO-LITE 1

Unit weighs 2½ lbs.; a-c operation; 1/500 sec flash duration; 1 or 2 lamps. Price, $69.50.

MODEL 170

Portable unit weighing 18 lbs.; operates from rechargeable wet cell battery; 175-watt-second light output; interval between flashes 10 sec.; Kemlite 23ST flashtube; 10,000 flashes per tube; 6500 K color temperature; 1/1000 sec. flash duration; 7-inch reflector. Price, $196, inc. battery charger. Accessories available include extension unit with 10 ft. of cord, and spare batteries.

MFR., D. A. Davenport Mfg. Co.

DORMITZER

SYNCTRON 207

Portable unit, weighs 6 lbs. 6 oz.; operates on wet cell battery and a-c; for use with X or built-in 0 delay synchronizers; time delay accessory available; light output, 3300 lumen seconds; 75 watt-second input; 200 flashes or more per battery charge; battery life 10,000 flashes or more; flash duration 1/3000 sec; 12 to 15 sec interval between flashes; charge light indicator in lamphead; case. Price, $95; rechargeable battery, GS-18-100, $14.30; charger, M-101, $10.50.

SYNCTRON 208

Portable unit, weighs 6 lbs. 6 oz.; operates on rechargeable wet cell battery and a-c; for use with X or built-in 0 delay synchronizers; time delay accessory available; light output 5500 lumen seconds; 125 watt-second input; 200 flashes or more on each battery charge; battery life over 10,000 flashes; 1/2500 sec flash duration; 10 to 12 sec interval between flashes; charge light indicator in lamphead; case. Price, $127.50. Rechargeable battery GS-18-100, $14.30; charger M-101, $10.50.

SYNCTRON 215

Portable unit, weighs 3½ lbs.; operates on a-c only; for use with X or built-in 0 delay synchronizers; time delay accessory available; light output, 2,000 lumen seconds; 60 watt-second input; interval between flashes 10 to 12 sec; flash duration 1/3000 sec. Price, $69.50.

SYNCTRON 100

Portable unit, weighs 10½ lbs.; rechargeable wet cell battery and a-c operation; for use with X or built-in 0 delay synchronizers; 3700 lumen second light output; 98 watt-second input; with booster pack accessory light output can be raised to 7800 lumen seconds and 196 watt-second input; uses oil capacitors; weight with booster pack, 16 lbs.; 200 or more flashes on each battery charge; battery life, 10,000 flashes or more; flash duration 1/5000 sec; interval between flashes from 8 to 10 sec. Price, $180; charger M-101, $10.50; rechargeable battery GS-18-100, $14.30. Synctron accessories available for Dormitzer units: time delay accessory; mounting and extension cables; (for all units but Model 215) photocell remote control; a-c accessory; spare battery; (for Model 100) booster pack.

SYNCTRON 200

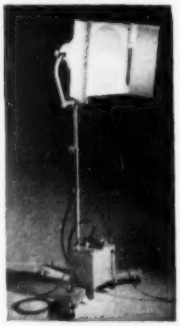
Portable unit with output control, weighs 9 lbs.; operates on rechargeable wet cell battery and a-c; for use with X or built-in 0 delay synchronizers; light output 10,000 lumen seconds, 200 watt-second input at full power; at ½ power, light output 5,000 lumen seconds with 100 watt-second input; flash duration at ½ power, 1/2500 sec; at full power, 1/1250 sec; charge indicator in lamphead; case. Price, $230. Rechargeable wet cell GS-18-10, $15.75; battery charger M-201, $17.50.

MFR., Dormitzer Electric and Manufacturing Co., Inc.

EASTMAN KODAK

KODATRON STUDIO SPEEDLAMP

Studio unit, operates on a-c only; 224 watt-second input; for use with built-in synchronized shutter, and mechanical synchronizer; used with FT-403 flash tube; about 10,000 flashes per tube; 6500 K color temperature; flash duration 1/5000 sec.; 10 sec. interval between flashes; 17" polished reflector with barn doors and diffusion screen furnished; 10



foot cord; can operate with 1, 2, or 3 lamps. Price, $600; extra lamps without power pack, $230 each.

MFR., Eastman Kodak Co.

EDGERTON

DOUBLE FLASH UNIT TYPE 2307

Portable unit, weighs 45 lbs.; a-c operation only; for use with built-in, solenoid and mechanical synchronizers; can be adapted for focal-plane shutters; 1/1 microsecond flash duration; 0 to 100 microseconds interval between flashes; developed for measurement of velocities and patterns of air shock waves produced by explosives or the speeds of objects moving up to 8,000 feet per second. Price: $1,850.

SUN FLASH TYPE 101

Studio unit, total weight 1400 lbs.; 207 lbs. per item; a-c operation only. For use with built-in solenoid and mechanical synchronizer; can be adapted for focal-plane shutters; FT 623 flash tube; indefinite number of flashes per tube; daylight color temperature; 1/250 sec. flash duration; 60 sec. interval between flashes; 24- or 6-inch reflector; 25 or 50 foot cord. Price, $7,405, including 1 power supply, 4 condenser banks, 1 lamp house, 1 Sun Reflector, 1 extension cable, 2 dollies, 1 FT-623 tube.

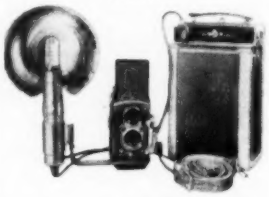
MFR., Edgerton, Germeshausen & Grier, Inc.

EPCO

CORONATION

Portable unit, weighs 7 lbs.; interchangeable, dry cell battery operation only; for use with built-in synchronized shutters; can be adapted for X-type focal-plane shutters; use with Kemlite flash tube; 50,000 flashes per tube; 6000 K color temperature; 1/1200 flash duration; 3 sec. interval between flashes; 6" parabolic reflector; 6 foot cord; 1,000 flashes per battery. Price, $99.50, less batteries. Side lights available.

PD-400



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Konica

PD-400
Portable unit, weighs 10½ lbs.; operates on wet cell interchangeable batteries and a-c; for use with built-in synchronized shutter; can be adapted for use with focal-plane shutters; for use with Kemlite V4X flash tube; 50,000 flashes per tube; 6000 K color temperature; 1/10,000 sec. flash duration; 4 to 5 sec. interval between flashes; 7" Aplanatic reflector furnished; 6 foot cord; oil capacitors. Price: $185. Accessories include sidelights, batteries and chargers.
MFR., Epco Products, Inc.

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HARWOOD

ECONO-FLASH MODEL III

Portable unit, weighs 2 lbs.; a-c operated; for use with mechanical, solenoid and built-in synchronizers; Kemlite flashtube with more than 10,000 flashes per tube; 30 watt-second input; with booster, 60 watt-second input; 6500 K color temperature; 1/1000 sec. flash duration; 3 sec. interval between flashes; adjustable control for XFM synchronizing. Price, $47.50. Accessories include booster, $15.75; dry cell battery pack, $14.20; and extension sidelight: $20.50.

MODEL IV

Portable unit, weighs 8 lbs. with batteries; 106 watt-second input; battery and a-c operation; adjustable delay circuit from 0 to 23 milliseconds, suitable for X, F or M synchronized shutters; 6-inch mirror-finished reflector; 6200 K color temperature; 1/800 sec. duration of flash; unit may be used with 1, 2 or 3 extension lights. Price, on request.

MODEL IV-X
Same as above except flashgun is synchronized for X or 0 delay shutters only. Price, on request.
MFR., Harwood Manufacturing Co.

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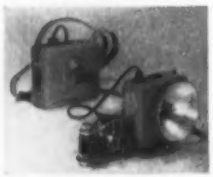
HEILAND

STROBONAR I

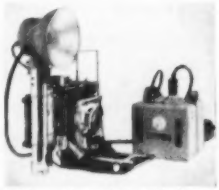


Portable unit weighing 3½ lbs. for a-c plus 4½ lbs. for power pack; 2 wet cell batteries; combination a-c and battery operation, built-in charger; for use with all X-contact shutters and focal-plane shutters on Leica and Exacta cameras; G-E FT110 flashtube with 10,000 flashes per tube at 7000 K color temperature; 1/2000 sec. flash duration with 12 sec. interval between flashes; 5½-inch reflector; four feet of cord plus 12 feet of extension; adaptable as slave light. Price, $82.50 for a-c lamp unit; $51.50 for power pack with built-in charger; tax included. Accessories include HR-7 Fotoeye, HR-5 5 milli-second delay adapter, press camera bracket.

STROBONAR 1A

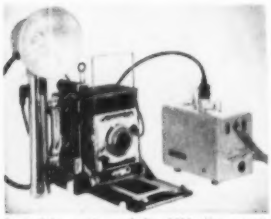
Similar to Strobonar I except that unit has separate reflector head instead of being part of box. Price $97.50 for a-c unit; power pack, $51.50. Accessories include HR-7 Fotoeye.

STROBONAR III



Portable unit, weighs 5½ lbs.; a-c; wet-cell pack extra with charger included in pack; for use with built-in X synchronized shutters, mechanical synchronizers, and can be adapted for focal-plane shutters; FT 110 flash tube; 10,000 flashes per tube; 7000 K color temperature; 1/2000 sec. flash duration; 6 to 8 sec. interval between flashes; 5¼" parabolic reflector; 4 foot cord. Price, $135.

STROBONAR IV



Portable unit, weighs 13½ lbs.; wet cell and a-c operation; charger included in unit; for use with built-in X synchronized shutters, mechanical synchronizers, and can be adapted for focal plane shutters; FT 218 flash tube; 10,000 flashes per tube; 7000 K color temperature; 1/1000 sec. flash duration; 12 to 14 sec. interval between flashes; 5¼" parabolic reflector; 4 foot cord. Price, $369.50.
MFR., Heiland Research Corp.

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HERSHEY

SUN-LITE II

Portable unit, weighs 8 lbs. complete; dry cell operation only; for use with built-in synchronized shutters and mechanical synchronizers; can be adapted for focal-plane shutters with electronic flash provision; Sun-Lite flash tube; 10,000 flashes per tube; 6400 K color temperature; 1/1000 sec. flash duration; 5 sec. interval between flashes; 6" parabolic reflector; 3 foot cord; accessories include a-c adapter, extension lights. Price, $79.50; a-c adapter, $16.50; extension lights, $42.50; synchronizing adapter, $12.50. Sun-Lite II a-c unit without battery pack, $62.50.
MFR., Hershey Mfg. Co.

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JEN ELECTRONIC FLASH EC

Portable unit weighing 7 lbs.; dry cell and a-c operation; for use with built-in synchronized shutters and mechanical synchronizers; can be adapted for focal-plane shutters; 5 sec. interval between flashes; 6500 K color temperature; Jen flash tube; 1/1000 sec. flash duration; 5½ inch reflector; 7 feet of cord; side light unit may be used. Price, $138.90.

MODEL EB
Similar to Model EC but dry cell operation only. Price, without batteries, $118.50.

MODEL EA
Similar to Model EC but a-c operation only. Price, $134.90.
MFR., Jen Products, Inc.

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JOHNSON VENTLITE

RANGER HOME PORTRAIT OUTFIT

Unit weighs 9 lbs.; a-c operation; 1/1000 sec. flash duration; maximum input 180 watt-seconds; takes up to 3 lamps. Price, $150.

ROCKET 8202

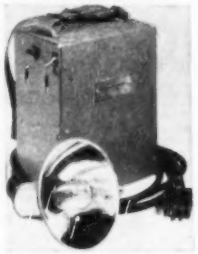
Unit weighs 12¾ lbs.; dry cell and a-c operation; 1/400 sec. flash duration; maximum input 200 watt-seconds; takes one or two lamps. Price, $170.

SPEEDLITE 4103
Operating on a-c; 1/5000 sec. flash duration; maximum input 240 watt-seconds. Price, $350.
MFR., Johnson Ventlite Co.

●

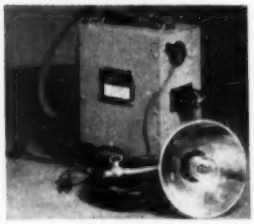
LIGHTNING-LITE

LIGHTNING-LITE BP



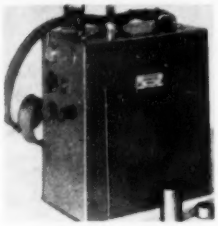
Portable 14 lb. unit; 2 interchangeable, chargeable wet cell batteries; battery only operation with mechanical, solenoid, and built-in synchronizers; flashtube with duration of 1/15,000 sec. with 7 seconds interval between flashes; large, specially-designed reflector. Price for complete unit, battery charger included, $165.

LIGHTNING-LITE ACP



Portable 14 lb. unit that has same features and characteristics and features of BP model; a-c operation only; price, complete, $165. Model ACP-2, a 2-lamp model, $220.

LIGHTNING-LITE MODEL AC-PC
Portable unit weighing 18 lbs.; for a-c use only with mechanical syn-

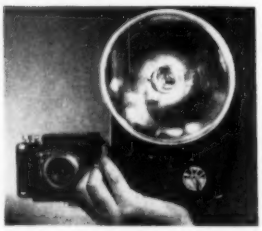


chronizers and shutters with built-in synchronization; flashtube has 10,000 flashes with color temperature correct for daylight-type color film without filter; 1/15,000 sec. flash duration with 7 sec. interval between flashes; 6 or 8-inch reflector; unit built in metal carrying case with shoulder strap; photo-cell or shutter triggering. Price, one-lamp model, $165; 2-lamp model, $220. Specially designed 10" and 14" reflectors available for these models.
MFR. Lightning-Lite Co.

●

LUMAX

LUMAX 1953



Portable unit weighing 3 lbs.; uses 4 D-type dry cells, battery operation only; for use with mechanical and built-in zero-delay synchronizers; Lumax flashtube with more than 10,000 flashes at 6500 K color temperature; 1/1000 sec. flash duration with 12 sec. interval between flashes; 5½-inch Lumax reflector. Price, $39.95. Accessories include sync cords for any camera; brackets (straight and angle); passive synchronizers.

LUMAX SEMI-PRO
Unit weighing 10½ lbs.; wet cell and a-c operation; 1/1500 sec. flash duration; 150 watt second input; one or two lamps. Price, $125.
MFR., Lumax Mfg. Co.

PHO-TAK

THRIFT-LITE AC-40

Semi-portable unit weighing 3½ lbs.; a-c only; for use only with X setting on mechanical and built-in synchronizers; adapted for focal-plane shutters; Thrift-Lite tube; 20,000 flashes per tube at 6500 K color temperature; 1/1000 flash duration; 10 sec. between flashes; 7-inch reflector; 12 feet of cord from gun to pack; 6 feet of cord from pack to outlet; no moving parts; tube operates on 450 volts; maximum input, 50 watt-seconds. Price, $39.95. Accessories include L-brackets and cords for popular cameras, synchronizer for Leica.

THRIFT-LITE AC-45
Same features as above; can be used with shutters having either 5 millisecond built-in delay or X setting. Same accessories as above. Price on request.

Manufacturers' and distributors' addresses begin on page 194

BROOKS . . . 1ST IN THE WEST WITH BETTER CAMERA BUYS

BROOKS 1st FOR LEICA

Brand New Leica IIIF with built-in flash synchronization. Body only with your present IIIC (subject to inspection). Keep the lens on your present Leica..... **94.50**

	New	L. New
Leica IF body, built-in flash	73.10	
Leica IIF body, built-in flash	139.40	
Leica IIIF body, built-in flash	210.80	
Leica IIIF f2 Summitar ctd.	384.20	
Leica IIIC f2 Summitar ctd.	350.00	199.00
Leica IIIC f3.5 Elmar ctd.	259.00	149.50
35mm Summaron, f3.5	102.00	79.50
50mm Elmar, ctd., f3.5	68.00	44.00
50mm Nikkor, f1.4	198.00	149.00
50mm Summitar, f2.	173.40	99.00
50mm Summarit, f1.5	224.40	169.50
85mm Summarex, f1.5	442.00	274.00
85mm Nikkor, f2.	175.50	139.00
90mm Elmar, f4., chrome	112.20	79.50
135mm Hektor, chrome, f4.5	150.00	119.00
200mm Telyt with reflex hs. f4.5	258.00	189.00
400mm Kilar, f5.6 w/refl. hous.	399.50	Also for Contax
500mm Astro, f5. w/refl. hous.	495.00	
640mm Astro, f5. w/refl. hous.	875.00	
Focomat Enlarger 1c	147.00	
Focomat 2C, with 2 lenses	450.00	
Valoy Enlarger	81.00	
Leica Flash Gun	24.00	
Leica Meter	24.00	

BROOKS 1st FOR CONTAX

Complete with built-in synch., self-timer, range & viewfinder.

Contax IIIA, built-in light meter,	New	L. New
f1.5 Sonnar	534.00	349.00
Contax IIA with f2 Sonnar	444.00	239.00
Contax IIA with f1.5 Sonnar	488.00	289.00
35mm Biogon for IIA, f2.8	245.00	179.00
85mm f2 Sonnar	292.00	139.50
135mm f4.5 ctd. Sonnar	170.00	99.00
Zeiss Universal Finder	80.00	
Zeiss Contameters for IIA & IIIA	81.00	

LATEST ZEISS ARRIVAL! New Ikoflex IIA twin-lens reflex, f3.5 Tessar full (MX) flash, sh. speeds from 1 second to 1/500th. Camera.....200.00 Case.....16.00

BROOKS MAY SPECIALS

NEW DISCONTINUED CAMERAS

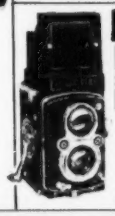
Ikoflex IIa f3.5 Tessar X flash Compur	139.50
Super Ikonta A f3.5 Tessar flash sync.	109.00
Super Ikonta B f2.8 Tessar flash sync.	169.00
Contax S f2 Biotar flash sync.	179.00
Retina II flash Compur Rapid, f2.	98.00
Exakta V f3.5 Tessar "T" ctd.	163.50
Exakta II f3.5 Tessar	149.50
Exakta V f2 Biotar	239.00
Bell & Howell Autoload f1.9 16mm	129.50
Bell & Howell Automaster f1.9 16mm	169.50
USED SPECIALS — 1 Year Written Guarantee	
Retina I f3.5	39.50
Retina IIA f2 Xenon fla-sync. like new	119.95
Leica III 3.5 Elmar	89.50
Leica IIIA 2 Summar	129.50
Contax II f2 Sonnar	139.50
Contax III f2 Sonnar	159.50
3¼x4¼ Anniversary Speed Graphic f4.7 R/F. and gun	99.50
4x5 Anniv. Speed Graphic f4.7 R.F. and gun	109.50
Medalist I f3.5 Ektar	89.50
Medalist II f3.5 Ektar	179.00
Robot II f2.8 Tessar	59.00
Bolex H-16 f1.9 Pens.	199.00

FAMOUS NIKKOR LENSES

Avail. in Leica, Contax mount.	New	L. New
35mm f2.5	154.50	
35mm f3.5	89.50	69.00
50mm f1.4	198.00	149.00
85mm f2.	175.50	139.00
135mm f3.5	154.50	119.00

NIKKOR CAMERAS

With f2. lens	259.00	199.00
With f1.4 lens	349.00	259.00



BROOKS 1st FOR ROLLEI

NEW 1953 ROLLEI with outstanding features including f2.8 Xenotar 5-element lens, ext. color correction, w/case.....385.00

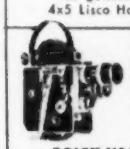
ROLLEIFLEX Auto. w/MX flash, f3.5 Xenar, case, new	265.00
f3.5 Tessar, case, new	285.00
1952 Rolleicord III with f3.5 Xenar with case, new	149.50
Zeiss Duonar 2X Telephoto lens	144.00
Zeiss 4X Magnar	169.00

BROOKS 1st FOR PRESS

BRAND NEW PRESS OUTFIT

Busch 4x5 Pressman, ctd. 135 mm Raptar Lens in Rapax sh., Cpld. Rangefinder, revolving back, double extension bellows, precision built.. **129.50**

W/135mm Xenar Flash Compur sh., R.F., flash gun	149.50
Optical Viewfinder	8.95
2¼x3¼ Busch complete w/4" Prestar f4.5, flash shutter, Rangefinder	109.50
2¼x3¼ Pacemaker Crown Graphic, coupled Rangefinder f3.5 Skopar in full synch. shutter, new	179.50
2¼x3¼ Pacemaker Speed Graphic rangefinder f3.5 Skopar full synch. sh., flash gun, new	219.50
4x5 Pacemaker Crown Graphic with Kalart rangefinder f4.7 ct. Xenar Compur Rapid, flash shutter, new	179.50
4x5 Pacemaker Speed Graphic, Kalart Rangefinder f4.7 ctd. Xenar, f1. Comp., R. gun	229.00
4x5 Lisco Holders, new	2.99



BROOKS 1st FOR MOVIE

NEW BOLEX H-16 LEADER

Complete with Tri Focal Viewfinder, Critical Focus Eyecup and turret head for 3 lenses. 100 ft. capacity. With 25mm f1.9 Lytar ctd. lens..... **299.50**

BOLEX H16 or H8 De Luxe with f1.9 Lytar 25mm, Octameter & eye-level focus	372.75
NEW BOLEX PAN CINOR ZOOM LENS for 16mm cameras. Variable focal length lens, from 20mm to 60mm in 1 "take"	447.50
Bolex Stereo Attachment	397.50
Stevens Motor for BOLEX, batteries	77.50

	New	L. New
Cine Special II, f1.9 Ektar lens	960.00	695.00
Cine Special I, f1.9		395.00
BELL & HOWELL 70DL, f1.9	365.50	279.00

SOUND DEPARTMENT

Auricon Cine Voice, 100 ft. mag.	695.00	595.00
Auricon Pro, 200 ft. mag.	1310.00	995.00
Auricon Super, 1200 ft. mag.	2649.50	
B&H Proj. 202C, Mag. & Opt.	699.00	

BROOKS 1st FOR THE VERSATILE

Linhof SUPER TECHNIKA

Linhof Super Technika 2¼x3¼ featuring Tilting & Swinging back, Multifocus rangefinder, revolving back, triple extension bed, drop bed, quick change lens lock. PLUS THESE 3 LENSES: 65mm f/6.8 Wide Angle Angulon, 105mm f/3.5 Schneider Xenar Normal lens, 180mm f5/5 Tele-Xenar Telephoto lens, all in fully synchronized MX Compur Rapid Shutter to 1/500 sec., and all coupled to Rangefinder..... 575.00

SUPER TECHNIKA 4x5 now avail. w/f/3.8 135 mm Schneider Xenar in Compur flash & 90mm f/6.8 Schneider Angulon, complete..... 463.19

4x5 Super Technika with 127mm f4.7 Press Xenar synchro	359.75
4x5 Super Technika w/150mm f/4.5 Compur Xenar synchro	375.75
5x7 Super Technika with Multi-focus Rangefinder, no lens	449.75
5x7 Super Technika with 210mm f4.5 Xenar	577.10
Linhof Multiscope Optical Viewfinder with Case	87.50
DeLuxe Combination case, all leather for 4x5 & accessories	45.00
Professional Linhof Tripod	90.00
Professional DeLuxe Linhof Geared Tripod	169.95

Lenses for Press Cameras

65mm f6.8 Schneider Angulon in full Comp. Synch., W.A. 2¼x3¼	63.36
75mm Goerz Rectagon W.A.f/6. Rapax, full Synch. for up to 4x5	159.42
90mm f6.8 Schneider Angulon, Comp. Synch., Wide Angle for 4x5	56.96
120mm f6.8 Schneider Angulon, Comp. Synch., Wide Angle for 5x7	85.00
3 5/8" Dagor f/8. W.A., full synch.	150.50
6" f6.8 Goerz Dagor in Rapax synch. shutter	145.00
7" f6.8 Goerz Dagor in Rapax synch. shutter	167.50
8½" f4.5 Schneider Xenar, flash comp. shutter	127.35
240mm f5.5 Schneider Tele-Xenar, fl. comp. shutter	100.00
270mm f5.5 Schneider Tele-Xenar, fl. comp. shutter	134.00
360mm f5.5 Schneider Tele-Xenar, fl. comp. shutter	179.00

SCHNEIDER, SYMMAR CONVERTIBLES

6 Elemental Convertibles, excellent definition

135mm, also 210mm, 260mm f/6.8 Symmar in Compur full Synch.	62.05
180mm, also 285mm, 355mm f/6.8 Symmar in Compur Synch.	91.80
210mm, also 325mm, 405mm f/6.8 Symmar in Compur Synch.	101.40

Write for 1953 Lens List

BROOKS 1st FOR EXAKTA

EXAKTA VX

One of the world's great 35mm single-lens reflex cameras . . . versatile, accurate, simple to use . . . ground glass focusing gives you the exact picture you see.

Kine Exakta VX with f2. Preset, new Zeiss coupled split image rangefinder and focusing viewfinder with Pentaprism..... 400.00

Kine Exakta VX same as above with f1.5 lens..... 450.00

Kine Exakta VX, f3.5 Tessar	224.50
Kine Exakta VX, f2 Xenon	249.00
Kine Exakta VX with f2.8 Zeiss Tessar "T" coated lens, Preset Dia.	269.50
Kine Exakta VX with f2 Zeiss Biotar "T" coated lens, Preset Dia.	343.00

Kine Exakta V, f3.5 ctd. Zeiss Tessar, **Brand New**	163.00
Exakta V w/f2 Zeiss Biotar, **Brand New**	239.00

Penta Prism Eye Level Viewfinder for V-X and V	50.00
28mm f3.5 wide angle Retrofocus, just arrived	120.00
35mm Retrofocus f2.5 w. a.	99.50
85mm f2.8 Steinheil Culminar	68.00
90mm f1.8 Angeneux	149.50
100mm f2.8 Hugo Meyer Goerlitz Trioplan	81.60
135mm f4.5 Steinheil Culminar	60.00
135mm f4.5 Zeiss Triotar	75.00
150mm f5.5 Meyer Goerlitz	55.95
180mm f5.5 Hugo Meyer Goerlitz Tele-Megor	82.95
250mm f5.5 Hugo Meyer Goerlitz Tele-Megor	132.15
400mm f5.5 Hugo Meyer Goerlitz Tele-Megor	199.50

Bellows Att..... 44.50 Set of 3 Ext. Tubes.. 14.50

35MM SINGLE LENS REFLEX EXA

35mm single-lens reflex camera w/ctd. f2.9 lens	89.75
New Exa with f3.5 "T" coated Zeiss Tessar lens	119.75
Carrying Case	9.95

105mm Steinheil f4.5 for use with Novaflex	**34.00**
Novaflex Bellows	**44.50**
Flash gun for Exakta	**15.50**

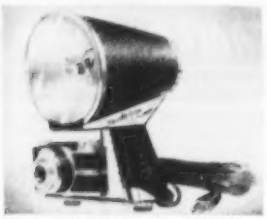
MAIL ORDERS SHIPPED SAME DAY RECEIVED

BROOKS Cameras

45 KEARNY AT MAIDEN LANE, SAN FRANCISCO 8, CALIFORNIA
EX. 2-7348

BUDGET TERMS AVAILABLE

THRIFT-LITE II



Unit weighs 1½ lbs.; dry cell battery and a-c operation; maximum input 60 watt-seconds. Price, $59.50.
MFR., Pho-Tak Corp.

PHOTOGENIC

HOME PORTRAIT SPEEDLIGHT

Semi-portable unit, weighs 18 lbs.; a-c operation; maximum input in each of two self-contained units, 100 watt-seconds; modeling lamps; barn door reflectors; diffusing screens available. Price, $260, for unit; lamps, $21; stands, $16.50.

LITTLE GIANT

Portable unit, weighs 8½ lbs.; dry cell operation; 50 watt-seconds input at low intensity and 100 watt-seconds input on high intensity; 2 sec. interval between flashes; batteries last approximately 2900 flashes; for use with camera shutters with built-in X synchronization; charge-indicating light; 1/1000 sec. flash duration. Price, $120, including flashtube, 2 batteries and flood reflector.
MFR., The Photogenic Machine Co.

PHOTOGRAPHIC PRODUCTS

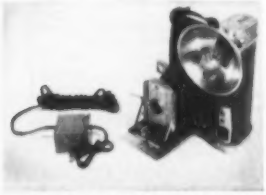
CHROMO-FLASH COMMANDER

Semi-portable unit weighing 12 lbs.; for a-c use only with solenoid and mechanical synchronizers and shutters with built-in synchronization; uses G-E flashtube with 6800 K color temperature; 1/5000 sec. flash duration with 3 sec. delay between flashes; 10-inch Alzac reflector; 20-foot power cord; power pack and light in one unit; contains modeling light. Price, $182.50. Accessories include remote control light.
MFR. Photographic Products, Inc.

POWELL

NITECLUBBER 500

Portable unit, weighs 7 lbs. with battery pack; wet cell and a-c operation; charger included in unit; for use with built-in synchronized shutters; can be adapted for focal-plane shutters with built-in synchronization; Kemlite flash tube; 10,000 flashes per tube; 6500 K color temperature; 1/2000 sec. flash duration; 10 to 15 sec. delay between flashes; 5½" parabolic reflector; 4 or 19 foot cord. Price, $64.50 for 45 watt-second a-c unit; wet cell rechargeable battery pack, $51.50.



REPEATER FLASH F-210-N

Portable unit, weighs 8½ lbs. with batteries; wet cell and a-c operation; for use with built-in synchronized shutters, mechanical synchronizers, and can be adapted for use with focal-plane shutters with built-in synchronization; Kemlite flash tube; 10,000 flashes per tube; 6500 K color temperature; 1/1500 sec. flash duration; about 10 sec. interval between flashes; 5½" parabolic reflector; 5 foot cord; adjustable for X or 0 delay up to 18 milliseconds. Price, $97.50 for 90 watt-second unit; $119.50 for 100 watt-second unit; $51.50 for wet cell battery pack.
MFR., Powell Products, Inc.

RADIO ENGINEERING

MINITRON A

Portable, studio unit weighing 27 oz.; battery or a-c operation; maximum input 60 watt-seconds; for use with built-in synchronized shutters; can be adapted for focal-plane shutters; GE FT-105 flash tubes; 10,000 flashes per tube; 7000 K color temperature; 1/500 sec. flash duration; 6 sec. interval between flashes; 5⅝" parabolic reflector; 6 foot cord. Price, $59.95.
MFR., Radio Engineering Co.

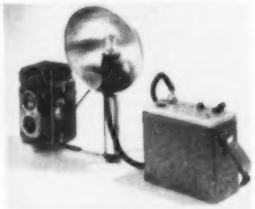
SEMINAR

Semi-portable unit; a-c operation; for use with all solenoids and between the lens shutters, and for most focal plane shutters; G-E FT210 flashtube; 7,500 flashes per tube; 6500 K color temperature; flash duration 1/5000 sec.; 3 second interval between flashes; 10-inch reflector with modeling light; 15-ft connecting cord. Price, $255 to $375, with 1 to 4 lights. Available accessories include 16-inch reflector rim, swivels, stands.

SYNCHROTRON 300

Semi-portable, studio unit, weighs 16 lbs.; a-c operation only; for use with built-in, solenoid and mechanical synchronizers; can be adapted to most all focal-plane shutters; GE FT-210 flash tube; 50,000 flashes per tube; color temperature 6700 K; 1/5000 sec. flash duration; 3 sec. interval between flashes; 10" and 19" reflectors; 15 to 25 feet of cord; maximum input 235 watt-seconds; can be used with 1, 2 or 3 lights. Price, $441.
MFR., Seminar Lights Inc.

SHAWLITE



SUPER STROBE 400

Portable unit; maximum input 60 watt-seconds; battery operation; for X and 5 millisecond delay shutters; Kemlite and GE flash tubes; 15,000 to 25,000 flashes per tube; 3 to 4 sec. interval between flashes; sockets for extensions; satinized reflector. Price, $39.95, less batteries.

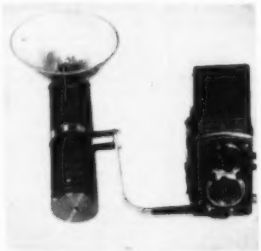
SUPER STROBE 500

Portable unit; maximum input 60 watt-seconds; a-c operation; for X and 5 millisecond delay shutters; Kemlite and GE flash tubes; 15,000 to 25,000 flashes per tube; 3 to 4 sec. interval between flashes. Price, $39.95.

SUPER STROBE 600

Portable unit; maximum input 120 watt-seconds; a-c operation; for X and 5 millisecond delay shutters; Kemlite and GE flash tubes; 15,000 to 25,000 flashes per tube; 3 to 4 sec. interval between flashes. Price, $64.95.
MFR., Shaw-Lite Electronic Corp.

SPEEDLIGHT CENTER



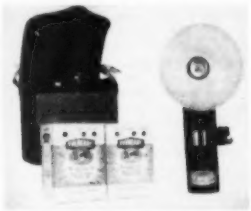
MIGHTY MIDGET II

Portable unit, weighs 1½ lbs.; wet cell, dry cell and a-c operation; charger included in unit; for use with built-in and mechanical synchronizers; can be adapted to all X focal-plane shutters; DX flash tube; 25,000 flashes per tube; 6300 K color temperature; 1/1000 sec. flash duration; 5 sec. interval between flashes; 5-inch Alzak reflector; accessories include close-up ring, booster, slave unit and bounce light extension. Price, $69.95; close-up attachment; $39.95.

SPEEDY

Portable unit, weighs 1 lb.; wet cell, dry cell and a-c operation; maximum input 60 watt-seconds; for use with built-in synchronized shutters; can be adapted for focal-plane shutters; DX flash tubes; 25,000 flashes per tube; 6300 K color temperature; 1/1000 sec. flash duration; 4 sec. interval between flashes; 5" Alzak reflector; 5 foot cord. Price, $79.95 for basic unit. Accessories available —close-up ring, AC Speedy, wet battery Speedy, booster, and slave unit.

SWIFTY



Portable unit, weighs 1 lb. (without batteries); interchangeable dry cell or wet cell batteries; can also operate on a-c; charger included with wet unit system; can be used with built-in synchronized shutter, mechanical X type synchronizer and focal-plane shutters; using DX flash tube; 25,000 flashes per tube; 6300 K color temperature; 1/1000 sec. flash duration; 3 sec. interval between flashes with dry batteries; using 5-inch Alzak reflector; 5 foot cord; 3,000 flashes per set of dry batteries. Price, $59.95; a-c pack, $15.95; wet pack, $49.95; dry pack, $19.95. Accessories include close-up ring; booster; slave unit.
MFR., Speedlight Center.

SPEEDOTRON

P-200

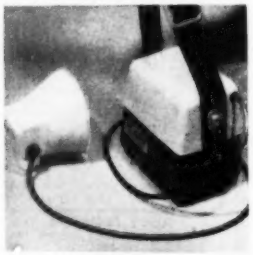
Semi-portable, studio unit weighs 7 lbs.; maximum input 180 watt-seconds; a-c operation only; for use with built-in synchronized shutters; 22ST flash tube; 100,000 flashes per tube; 6800 K color temperature; 1/1200 sec. flash duration; 6 sec. interval between flashes; 8-inch Alchemized reflector; 15-foot cord; takes two light extensions. Price, $170; including two lights, reflectors, stands.

B-220

Studio unit, weighs 13 lbs.; a-c operation only; maximum input 220 watt-seconds; for use with built-in synchronized shutters; 426-T Kemlite flash tubes; 100,000 flashes per tube; 6800 K color temperature; 1/1000 sec. flash duration; 6 sec. interval between flashes; modeling reflector; 20 foot cord. Price, $222, for Model B-1 complete with one light; $324, for Model B-2 complete with two lights; $442, for model B-3 complete with three lights.
MFR., The Speedotron Co.

STROBO RESEARCH

STROBOFLASH II



Portable unit, weighs 7½ pounds; 2 dry cell battery operation only; for use with built-in synchronized shutters; can be adapted for focal-plane shutters which have 0 delay synchronization; U5W flash tubes; 10,000 flashes per tube; 7000 K color temperature; 1/1000 sec. flash duration; 3 to 5 sec. interval between flashes; 5" satin-finish reflector; 5 foot cord; 2,000 flashes per set of batteries; case. Price, $99.50. Batteries, $7.95. Accessories include extra lamps; 20 foot extension cords; flashgun adapters and mounting brackets; photo tube for slave operation.

SR STROB III

Semi-portable unit weighing 24 lbs.; for 120 volts a-c use; 60 cycles; SR Strob III power pack; 2 SR LB100 sealed beam flashlamps with SR Universal Quick Change clamps and fittings; 15-foot a-c cord; 15-foot trip cord; 3-foot shutter cord; CE84R Photo Tube; spare fuses; 1/5000 sec. flash duration when one lamp is used; 1/10,000 sec. duration when both lamps are used; six sec. interval between flashes; uses G-E FT220 and FT403 lamps with over 10,000 flashes at 7000 K color temperature; built-in photo tube permits multiple operation without use of connecting cords as it acts as remote control unit. Price, $325.00.

Manufacturers' and distributors' addresses begin on page 194

SR MONOSTROB II

Semi-portable unit for a-c operation; G-E FT110 flashtube; 10,000 flashes per tube; 110 watt-second energy input; guide number for color without diffuser, 26; guide number for fast B-W films without diffuser, 200. Price for basic power pack, $192.50. Available accessories include studio reflectors, stands, snoots, diffusers, modeling light.

STROB IV

Studio unit, weighs 70 lbs.; a-c operation only; maximum input 1000 watt-seconds; for use with built-in synchronized shutters; can be adapted for any focal-plane shutter with 0 delay; FT-403, FT-220 or FT-503 flash tubes; 10,000 flashes per tube; 7000 K color temperature; 1/2500 to 1/4000 sec. flash duration; 12 sec. interval between flashes; 20-inch reflector; 20 foot cord; built-in photo-tube for slave operation; modeling lights; individual lamp control switches. Price, $545, power pack only.

SR MULTISTROB

Semi-portable unit for multiple banks of power packs; a-c operation; G-E FT503 flashtube; 1,000 watt-second light output; booster packs increase light output to 3,000 watt-seconds; failure of one unit does not break down entire installation; specially adapted for color use or for covering wide areas. Price, for each power pack, $510.

MFR., Strobo Research.

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WILCOX

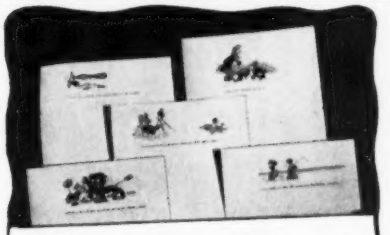
WILCOX STROBO-LITE P-2

Portable unit weighing 7 lbs.; uses 2 chargeable batteries; for use with solenoid, mechanical and built-in synchronized shutter synchronizations; G-E FT220 flashtube with unlimited flashes per tube at 7000 K color temperature; 1/1500 sec. flash duration with 12 sec. interval between flashes; sealed-beam lamp. Price, $165. Accessories include SB-3 20-foot extension lamp, $49.50; battery charger, $13.

STROBO-LITE M3B

Studio unit weighing 23 lbs.; a-c operation only for use with solenoid and mechanical synchronizers; uses three FT220 flashtubes at 7100 K color temperature; 1/4000 sec. flash duration with 15 sec. interval between flashes; built-in reflector; 20 feet of cord. Price, $300.

MFR., Wilcox Photo Prod., Inc.



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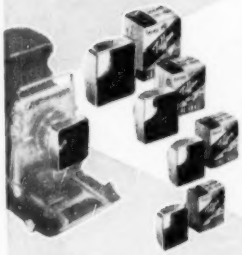

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FLASH EQUIPMENT

AGILUX

For cameras with built-in synchronization; in between-the-lens shutters; uses 3 type C batteries; 5-inch reflector; for bayonet base lamps; built-in diffusion screen; ejection clip; adaptable for use with passive trippers. Price, $9.95.
DIST., General Photographic Supply Co.

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ANSCO

For use with synchro-shutters with 3 mm European-type contact or standard ASA bayonet contact; takes to standard flashlight batteries or battery capacitator cartridge; bulb ejector; extension socket. Price, $9.95.
MFR., Ansco.

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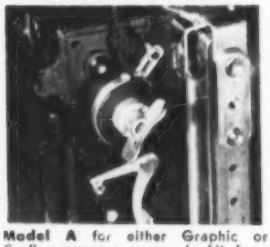
BACO FOCAL PLANE SYNCHRONIZER



Model A for either Graphic or Graflex cameras, comes in kit form to be installed by any service department; positive synchronization with focal-plane shutter with either G-E 31 or Superflash 2A flashbulbs used at any speed above the actual duration of the flash.

Model B is similar to above but may be installed by anyone; comes as a complete unit and attaches to the winding key of the camera. Price of each, less battery case or reflector, $9.95.
MFR., Baco Accessories Co.

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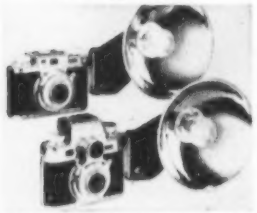
BOLSEY B-C



B-C flash unit for Bolsey B2 and C cameras; 5" parabolic reflector; bayonet lamp socket; 22½ volt battery. Price, $15.50.
MFR., Bolsey Corp. of America.

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BOWER PHOTO FLASH UNIT

For use with Bower cameras and all other cameras with between-the-lens shutters with built-in flash synchro-

nization; uses two C batteries; 5-inch reflector; for bayonet base lamps; bracket, accessory clip fitting; cords to fit any contacts. Price, complete, less batteries, including one cord, $6; same, less bracket, $5.40; extra cords, $1.50 each, adapter to fit Kine Exacta cameras for use with P.C. cord, $2.50, 40" extra long PC cord, $2.50.
DIST., Saul Bower, Inc.

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BUSCH B-C

For solenoid operation; also for all cameras with built-in synchronization; B-C unit using condenser and 22½-volt battery; screw lamp socket; switch retards opening of shutter until lamp is at peak; lamp ejector; multiple outlets for extensions, solenoid, synchro shutter and focusing light; focusing light operates from independent penlife cells; fires seven lamps in series on 100 feet of cord. Price on request. Complete accessories available.
MFR., Busch Camera Corp.

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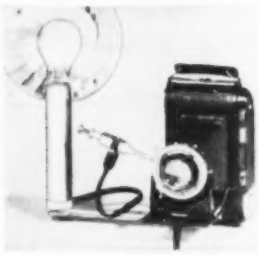
C.O.C. STANDARD

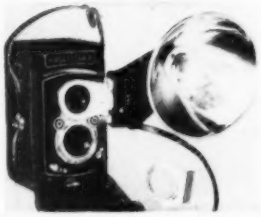
Nine models available for Ansco Pioneer, Rediflex, and Flash Clipper, Brownie Reflex, Kodak Duaflex, Target Brownie, Kodak cameras with built-in synchronization, and Spartus Full-Vue; includes aplanatic reflector; battery case; connecting cord; camera bracket. Prices range from $3.25 to $6.12.

C.O.C. UNIVERSAL



Available in 8 models to fit most single and double-action shutters with cable-release socket; adjustable, aplanatic reflector; battery case with extension outlet; mechanical synchronization; Model 10-A for cameras with cable-release sockets, complete with Universal tripper, $10.90 including tax; Model 10-A11, with tripper on battery case; for Leica, $13.90; for others, $12.90; Model 10-B complete with accessory cable for Kodak cameras with Pre-synchronized shutters, Land camera, Ciro-flex, Ansco Speedex and Titan, $8.90 including tax; same price for Model 10-C designed for cameras with Prontor shutters, Model 10-D for Kine Exaktas, and Model 10-E for Robot cameras. Model 10-CC, for all Compur Rapid and Prontor S shutters with built-in synch., $9.80, inc. tax.

C.O.C. B-C POCKET FLASH



All-metal B-C unit; detachable reflector; interchangeable cables; unit fires up to 6 bulbs from extension outlet; built-in test lite; adjustable reflector for bounce light. Price, $15.50.

JUNIOR B-C POCKET FLASH

Same as above only of Tenite construction. Price, $9.95.
DIST., Camera Optics Mfg. Corp.

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COMPRO-FLASH

Internal built-in synchronization for both electronic flash units and standard flash lamps. Installations offered for Compur and Compur Rapid, Wollensak Rapax and Alphax, and Ilex shutters, including both rim-set and dial-set types; the system couples directly to the blade actuator linkage of the shutter and gives consistent results with low contact resistance; all work done at the factory. Price of installation with cord and plug, $18. Accessories include 2-cell flash holder, long cords, and 7-inch reflector.
MFR., Compro-Flash.

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FERRANIA FOLDING FLASHGUN

Model A. For most Prontor-S and Compur Rapid shutters with built-in flash synchronization; uses 2 C cells; 5-inch parabolic reflector; bayonet lamp socket; lamp ejector; rotating reflector; connector cord; hinged reflector mount permits folding of unit. Price, $6.50, inc. batteries.

Model B. For use with any camera having built-in flash synchronization; uses 2 C cells or B-C insert with condenser and 22½-volt battery; 5-inch parabolic reflector; bayonet lamp socket; adaptable for use with screw base lamps; rotating reflector; lamp ejector; extension flash outlet; hinged reflector mount permits folding of unit. Price: $9.95 including connecting cord, but less batteries. Available accessories include extensions and connecting cords.
DIST., G. A. Buttafarri.

•

FICOLUX

For shutters with built-in flash synchronization; B-C unit using 22½ volt battery; folding reflector; uses cables for ASA flash shutters; leather case available. Price, $13.95.
DIST., Ercona Camera Corp.

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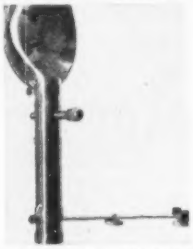
FLASHFLEX

For Rolleiflex and Rolleicord cameras with built-in flash synchronization; B-C unit using condenser and 22½-volt battery; 5¼-inch reflector; special bracket mounts on bayonet fitting of viewing lens; uses bayonet lamps; lamp ejector; extension outlet; cord. Price, less battery, $21.80; battery, $1.15. Adapter for conventional mounting of unit to other synchronized cameras with accessory clips, $2.95. Unit available with conventional mounting bracket for original price.
DIST., Burleigh Brooks Co.

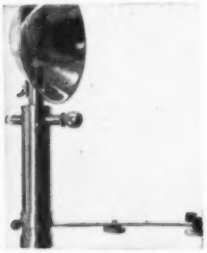
•

FLASH KING

Model EO. Synchronizes with between-the-lens shutters at all speeds with standard wire-type lamps and body-release type cameras such as Retina and Argoflex; synchronizes by means of mechanical cocking and solenoid tripping device; adjustable bracket with supporting clips; 5½-inch reflector; remote control outlet



and extension outlet. Price, $22.50 including tax. Accessories include remote control cord and brackets.



Model SM. For use with Eastman self-cocking shutters; adapted to focal-plane shutters of Contax, Leica, and Foth Derby at recommended speeds from 1/100 to 1/1250 sec.; uses two medium-sized batteries; 5-inch reflector; for midget bulbs; slip-in bayonet socket; synchronizes by means of a toggle action switch having a zero time lag. Price, $17.50 including tax.
MFR., Western Photographic Mfg. Co.

Manufacturers' and distributors' addresses begin on page 194

FLASH KING CA

For shutters with built-in flash synchronization; battery case is 3 inches long, 1¼-inch diameter; adjustable 5½-inch reflector; uses 3 penlight batteries; socket adjustable to midget and standard base lamps; unit screws in camera tripod socket; no bracket required. Price, $8.95 including tax.

MFR., Western Photographic Mfg. Co.

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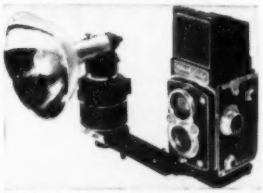
FLASH-TRONIC



Mechanical synchronizer; models designed for Automatic Rolleiflex, Contax, and Leica cameras; batteryless unit using a-c generator; recommended speeds with Leica shutter, 1/40 to 1/1000 sec.; with Contax, 1/25, 1/50, and 1/125 sec. and faster; 2 reflectors available as accessories; unit generates own current. Price, $59.50 including tax for Rolleiflex, Leica, or Contax model. Accessories include reflectors, multiple flash extension adaptors, hand cable releases, etc.

MFR., Technical Oil Tool Corp.

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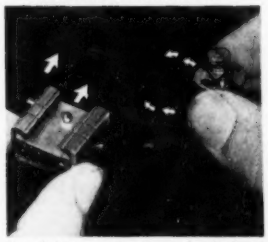
GEISS-KONTAKT



For all Leica cameras; mechanical synchronizer; recommended for speeds up to 1/500 sec.; for every type of flash lamp and electronic flash unit; fits accessory clip of Leica camera, and will accept all accessories designed for use with the accessory clip; installed by user; utilizes any flashgun accepting Kalart PC or Heiland 62 cords. Price, $11.95.

MFR., Geiss-America

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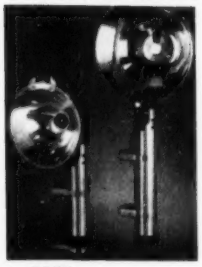
GRAFLASH B-C

B-C unit; for use with Graflex 22, Stereo Realist and other cameras with shoe connection; 22½ volt hearing-aid type battery; 5" satin finish reflector; bayonet lamp socket; extension outlet for standard plug. Price, $9.95, without battery.

GRAFLASH PL

For Graflex 22, Stereo Realist and other cameras with shoe connection; uses 2 Penlite photoflash batteries; 5" satin finish reflector; bayonet lamp socket. Price on request.

GRAFLITE FLASH SYNCHRONIZERS



Model 2726 for between-the-lens shutters; 2-cell battery case; 5-inch reflector; high resistance, inertia-type solenoid, 3-position series-parallel switch; 5 identified outlets; automatic lamp ejector; micromatic switch; right or left mounting; heavy duty clamp; remote control outlet; provision for multiple battery connections. Price with solenoid, mount, and connecting cord, $37.25.

Model 2728 same as 2726, but with 7-inch reflector for standard screw-base lamps. Price, $36.35.

Model 2736 same as Model 2726, but with 3-cell battery case. Price, $37.65.

Model 2738 same as Model 2728, but with 3-cell battery case. Price, $36.80. Accessories for Graflite synchronizers include 5 and 7-inch reflectors, extension tubes, connecting cords, sidelighting units, mounting brackets, safety shield for 5-inch reflectors, diffusion shield for 5-inch reflector.

GRAFLITE FLASHING UNITS

For use with Graphic-Graflex cameras and others having built-in flash synchronization; lightweight battery case; 5 or 7-inch reflectors; 3-position series-parallel switch; 5 identified outlets; automatic lamp ejector; micromatic switch; right or left mounting; clamp; remote control outlet; provision for multiple battery case connections; right angle and platform brackets for use with miniature and reflex cameras having built-in synchronization. Prices: Model 2725, 2-cell case and 5-inch reflector, $23.60; Model 2727, 2-cell case, 7-inch reflector, connecting cord, $22.75; Model 2735, 3-cell case, 5-inch reflector, $24.00; Model 2737, 3-cell case, 7-inch reflector, $23.15.

MFR., Graflex, Inc.

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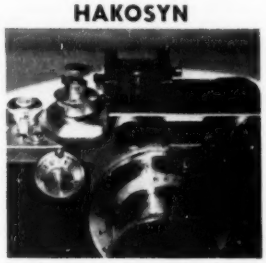
HAKOSYN



For Leica cameras; synchronizes at speeds of 1/20 or 1/30 sec., 1/60 sec., 1/100 sec., and strobe; speeds can be changed without removing unit. Price, $7.50.

DIST., A. G. Photo Distributors.

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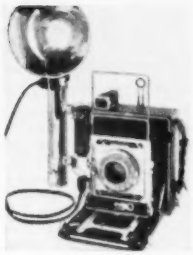
HEILAND

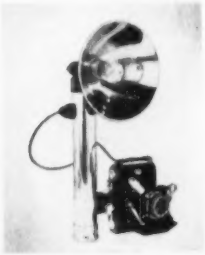
Pressmaster. Synchronizes with between-the-lens shutters from 1/25 to 1/500 sec.; adaptable to focal plane shutters on Crown and Speed Graphic, and similar type cameras; 3-cell case using size D batteries; 7-inch Lumenar-type 47 reflector; self-centering socket with reflector adjustable for all standard flashbulbs. Price, with battery-case E clamp, $43.40; with heavy duty mounts, $46.85, inc. F. E. T.

Press Model S. Synchronizes with between-the-lens shutters at speeds from 1/25 to 1/500 sec.; adaptable to focal plane shutters on Speed-



Graphic type cameras; 3-cell battery case using size D batteries; choice of reflectors. Prices vary from $41 to $46.85, depending upon the reflector. Accessories same as above.

Model R-II. For Kodak Retina I and II, and Compur Rapid shutters; magnetic synchronizer; 3-cell unit for use with between-the-lens shutters at speeds up to 1/250 sec.; Heiland 45A 6-inch reflector; bayonet socket; complete with clamp, bracket, coil and cord. Price, $49.60. Sidelight and reflectors available.

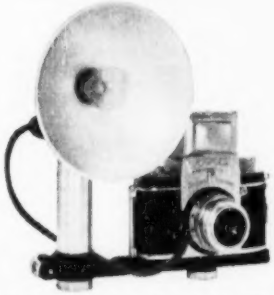


Model K. For use with cock-and-trip shutters and cable release shutters; 3-cell case using size D batteries; choice of reflectors. Prices vary from $39.90 to $41.70, depending upon reflector. Accessories same as above.

Press Model SR. For use with all f/3.5 Rollei cameras; can be used with similar type cameras with some adaptations; 3-cell battery case; uses size D batteries; battery case clamp; universal reflex bracket; two types of coils and cords. Price varies from $48.30 to $50.70, depending upon reflector. Accessories same as other models.

Press Model 2.8 SR. Same as above, except for Rolleiflex with f/2.8 lens; optional 7-inch Lumenar or 6-inch 45A reflector. Price, $54.68. Sidelight units, reflectors and Strobonar units available.

Model KB. For use with the Super Ikonta B and BX models; 3-cell battery case; uses size D batteries. Price varies from $44.10 to $46.50, depending upon reflector. Accessories available, the same as above.



Synchromite. For all shutters with built-in synchronization; battery case; 2 batteries; 5-inch reflector; bayonet lamp socket; polarized shutter outlet; extension outlet; bulb ejector; cord; adjustable camera bracket. Price, $10.95.

Synchro-Special. For all shutters with built-in synchronization; chrome battery case; 2 D batteries; 6-inch reflector; screw base lamp socket; polarized shutter outlet; 2 extension outlets; bulb ejector; cord. Price, $15.45, inc. tax. Sidelight unit and optional reflectors available.

Synchro-Custom. For Ciro-flex, Ansco Reflex, Rolleiflex, Rolleicord, Kodak 35, Kodak Reflex, Kodak Medalist II, Kine Exacta, and Polaroid Land cameras; 2 D batteries; adjustable reflectors; bulb ejector; 2 extension outlets; custom-fitted mounting bracket; polarized shutter cord. Prices, from $19.95 to $21.95.

Manufacturers' and distributors' addresses begin on page 194

Synchro-Mite Reflex. Same as above, but for reflex cameras; custom reflex bracket and 62-I Synchro Cord. Price, $11.95.
MFR., Heiland Research Corp.

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JEN

Jen extension. Remote flash unit; no batteries, for use with Jen B-C Flashgun; 5⅛ inch reflector; bayonet lamp socket; with clamp; 15 foot cable. Price, $9.60.

Jen-Flash Captor. Type III. Mechanical synchronizer; B-C unit using 22½-volt battery; 5-inch reflector; bayonet type lamp socket. Unit available for various cameras, price, $28.95.

Jen "BH" Pocket B-C Flash. For use with Hasselblad camera; B-C unit using 22½-volt battery; 5⅛ inch reflector; bayonet lamp socket; extension outlet. Price, $19.95.

Jen B-C Stereo Flash. For use with Stereo-Realist, Revere 33, Busch Verascope; B-C unit using 22½-volt battery; 5⅛ inch reflector; bayonet lamp socket; electrical shoe contact; extension outlet. Price, SE model for Revere 33 and SR model for Stereo-Realist, $14.95; SV model for Busch Verascope, $15.65.
MFR., Jen Products, Inc.

B-C Pocket Flash. For use with any camera having built-in flash synchronization; B-C unit with condenser and 22½-volt battery; 5-inch parabolic reflector; self-shorting extension outlet; for midget flash lamps; for use on accessory clips; can be fitted with accessory shoe. Price complete, $14.95. Available accessories include extension, bracket, cables, mounting shoe.
MFR., Jen Products, Inc.

Flash Type II Captor. Mechanical synchronizer for Leicas, Nos. 30,000 to 365,000, Nicca, Kardon, Canon, Contax-S and Kine Exacta cameras; recommended speeds for focal-plane synchronization, 1/60 to 1/1000 sec.; B-C unit using condenser and 1 22½-volt battery; 5-inch paraboloidal reflector; bayonet lamp socket; installed by user. Price, $31.95. Extensions, reflectors and cables available.
MFR., Jen Products, Inc.

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JET

Internal synchronizer installation; for all shutters except focal plane shutter on Korelle; for all types of flash lamps; does not interfere with normal camera or shutter operation; ASA fitting installed. Price on request.
MFR., Camera Craft, Inc.

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KALART

Compak Flash Unit. For midget bulbs; built-in test light; bulb ejector; takes two size "C" batteries. Price, $7.95.

Compak Passive. Same as above but for cameras with non-synchronized self-setting shutters. Price, $8.95.

Compak Automatic. Same as above but for cameras with non-synchronized set-and-release shutters. Price, $17.75.

B-C Multiflash. For cameras with built-in flash synchronization; models available for non-synch shutters; B-C unit using condenser and 1 22½-volt battery; will flash up to six lamps with extensions totaling 250 feet; bayonet lamp socket; same construction and appearance as Compak Speed Flash; complete choice of brackets and connecting cords available; extensions available. Prices start at $14.30, depending on bracket and cord; extension units, $9.85.

Deluxe Flash. For midget bulbs; test light; bulb ejector; uses two "C" size batteries. Price, $7.95.

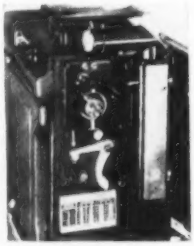
Deluxe Passive. Same as above but for cameras with non-synchronized self-setting shutters. Price, $8.95.

Deluxe Automatic. Same as above but for cameras with non-synchronized set-and-release shutters. Price, $17.75.

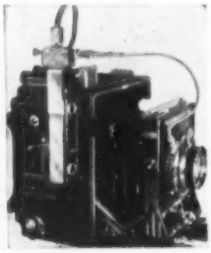
Master Flash. Adjustable reflector; for all types and sizes of screw base flash lamps; extension outlet; focuspot outlet and switch for open flash; uses 3 "C" size batteries. Price, complete with cord for built-in synchronization, $14.30.

Master Passive. Same as above but for cameras with non-synchronized self-setting shutters. Price, $15.25.

Master Automatic. Same as above but for cameras with set-and-release shutters; adapted to focal plane shutters. Price, $24.60.



Sistogun II. For focal plane shutters on 3¼x4¼ and 4x5 Anniversary and old-style Graphic cameras; synchronized speeds up to 1/1000 sec.; use with G-E 31 and Superflash 2A flashbulbs; fits under winding knob of focal plane shutter; can be used with same battery case and reflector as used with front shutter synchronizer. Price, complete with screws for installation and connecting cord, $12.50.



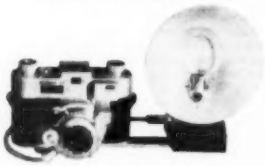
Synchrostrob. Synchronizes with between-the-lens shutters up to 1/100 sec., with instantaneous firing electronic flash units. Eliminates open-shut flash shots with electronic flash units; operates mechanically with no battery case necessary; automatically opens the shutter first and then fires the flash unit at optimum opening of shutter. Price complete, $14.25.

Super Flash. Built-in test lamp; bulb ejector; for cameras with built-in synchronization; flash exposure guide; for midget lamps; uses two "C" size batteries. Price, $9.95.

Super Passive. Same as above but for cameras with non-synchronized self-setting shutters. Price, $10.95.

Super Automatic. Same as above but for cameras with non-synchronized set-and-release shutters. Price, $19.75.

KALART COMPAK



DeLuxe. For shutters with built-in flash synchronization; battery case; test lamp; 2 medium cells; bulb ejector; cords available; same reflector as Compak Flash Unit. Price, $7.95.

Model CFK for use with Kodak and other cameras with built-in synchronization; uses 2 standard size C batteries; special 5-inch concentrating reflector; built-in Safety-First test lamp; for use with midget bulbs; bulb ejector; bayonet connecting cord; complete with Battery-Flector, extension bracket, $8.95 including tax.

Model CFPC for Zeiss, Voigtlander, Retina II, Monte Carlo and other European cameras with built-in synchronization; same equipment as Model CFK. Price, $7.95.

Model CFL for Polaroid Land camera only; attaches to accessory clip on camera with special bracket; same equipment as above model. Price, $7.95.

Model CFP for use with Zeiss, Voigtlander, and Monte Carlo cameras. Similar to Model CFK. Price, $7.95.

Model CFT for Kodak Tourist f/4.5 and f/5.6 only; same equipment as above. Price, $7.95.

KALART MASTER

Model MFK for use with cameras with built-in synchronization; uses three standard size C batteries; 6-inch paraplanatic reflector; adjustable for various bulbs; special bayonet connecting cord; extension outlet. Price, including Master battery case with three standard cell batteries, angle extension bracket, etc. $14.30.

Model MFPC for Zeiss, Voigtlander, Retina I & II, Monte Carlo and other European cameras with built-in synchronization. Similar to above model. Price, $14.30.

Model MFUG-1 for use with press-type cameras with built-in synchronization; similar to the above model. Price, complete with Push Button Body Release, $14.30.
MFR. The Kalart Co.

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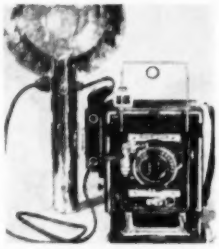
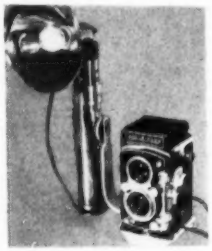
KINGLIFE



S-G. Synchronizes with Compur or other between-the-lens shutters from 1/50 to 1/400 sec.; available without tripper for use with shutters having built-in synchronization; 3 standard batteries; 6-inch reflector adjustable for various bulb sizes; standard socket; adjustable case clamp; focus spot outlet; remote control and extension flash outlets on battery case. Price, complete, $36. Complete line of accessories.

King-B. Synchronizes with Compur and other between-the-lens shutters from 1/50 to 1/400 sec.; has 3 standard batteries in 3-cell chrome-plated case; bayonet safety base; adjustable case clamp; 6-inch reflector; molded cords; special tripper bracket. Price, $30. Complete line of accessories available.



Speed R. For use with between-the-lens shutters; has same make-up as the above model; camera must be shipped to factory for installation. Complete with 3-cell battery case, safety base, adjustable case clamp, and 6-inch reflector, price is $40. All accessories available.

DeLuxe Flasher. For use with shutters having built-in synchronization; 2-cell chrome plated case; bayonet safety base; molded cords available to fit all type of built-in synchronization; 5-inch reflector. Price, $16.75.

Double-O. For use with shutters having built-in synchronization; 2-cell chrome plated battery case; accepts either bayonet or screw-base lamps without adapter; focusing reflector; cords available for all shutter contacts; lamp ejector. Price, $15.75; model with passive attachment for non-synch shutters, $17.85.

Midget Liteweight. For use with shutters having built-in synchronization; 2-cell battery case; accepts bayonet-base lamps; 5-inch parabolic reflector; cord for A.S.A. bayonet-type contact; other cords available; lamp ejector. Price, $10.95; model with passive attachment for non-synch shutters, $12.95.

Manufacturers' and distributors' addresses begin on page 194

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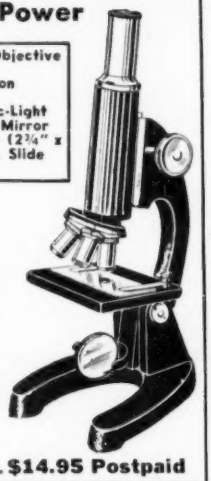

Good optical qualities. Fine focusing. Certainly not the equal of a $200 instrument—but definition is surprisingly clear and good . . . in fact amazingly so at this price. Serviceable construction. The greatest microscope bargain on the market! TRY IT FOR 10 DAYS . . . if you're not completely satisfied your money will be refunded in full.
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Only 5" High! Just $4.00 Postpaid. A little gem, gives excellent sharp definition! Good optical qualities, hinged base for inclined easy viewing, easy-to-use pinion focusing. Circ. stage, revolving disc-light mirror. 10-day refund priv. if not satisfied. An amazing buy!

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Holds 2,204 regular 35 mm. slides—each slot is numbered, has two hinged covers, black leatherette finish. One side includes a screen. Very useful for traveling lecturer, research lab., commercial slide seller, schools . . . . for anyone with a large collection of slides. Regular handle on top for easy carrying. Also handle on each end. Size of case 32½"x21"x6". (Used by Navy—Govt. cost over $100.) Weight 32 lbs.

Stock No. 104-P— $25.00 F.O.B. Barrington, N. J.

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Stock No.	Size	Pstpd. Price
70,003-P	4¼"	$ 7.00
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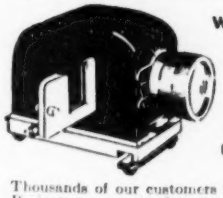

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Liteweight. For cameras having shutters with built-in synchronization; battery case; reflector; connection cord for Kodak cameras; camera bracket. Price, $4.40.

Life Junior Flasher. For shutters having built-in synchronization; battery case; 5-inch reflector for standard lamps; connecting cord to fit all Kodak flash shutters; standard outlet for extension flash; camera bracket. Price, $16.75.

Model L200. For Kodak 35, Medalist, Vigilant, Reflex II, 620, Polaroid Land, and other cameras with built-in flash synchronization; 6-inch reflector; uses screw base lamps; extension outlet; all-metal; cord. Price, $16.75 to $21.95. Midget lamp adapter available.

Model M101. For cameras equipped with shutters having built-in flash synchronization; cords to fit all fittings; all-metal. Price, $10.95.

Pistolgrip. For all cameras with built-in flash synchronization; 5-inch reflector; uses 2 penlite batteries; for midget flash lamps; adjustable brackets for all cameras; lamp ejector; interchangeable cords. Price, $12.95.
MFR., Kinglife Products Corp.

KODAK

Ektalux B-C. For all cameras, with or without built-in flash synchronization; uses condenser and 22½-volt battery; 6-inch parabolic reflector; accepts screw base or bayonet base lamps; pistol grip battery case; lamp ejector; bracket mounting; can be adapted for use with all solenoids or built-in synchronization fittings. Price, with standard bracket and 15-inch connecting cord with bayonet fitting, $29.75. Available accessories include solenoids, cords, synchronizer switch, remote release, extension units, brackets for various cameras, extension cords, adapters for solenoids and fittings.

Standard Flasholder. For cameras with shutters having built-in synchronization; holds two size C batteries or Kodak BC Flash-pack; lamp ejector. Price, $8.25.

B-C. Adjustable reflector; flash exposure guide; extension outlet; versatile bracket. Price, $10.40.
MFR., Eastman Kodak Co.

KONI FLASH I

Flash unit for Konica I, Konica II, Pearl II and cameras with Konirapid-S shutters; takes 4 penlight batteries;

polished wide angle reflector; bayonet and standard lamp socket; midget bulb adapter included; test lamp for shutter contacts and flash lamps; extension outlet. Price, $12.

KONI FLASH II

For use with Konica I, Konica II, Pearl II, Konirapid-S shutter; B-C unit using 22½ volt battery; polished cone-type reflector; bayonet and standard lamp socket; midget adapter included; test bulb. Price on request.
DIST., Konica Camera Co.

LEITZ CEYOO

For use with Leica If, IIf, IIIf; 22½ volt, B-C batteries; shallow matte finish 6½" reflector which adjusts for various bulb sizes; bayonet and standard lamp socket; folding reflector; multiple flash socket. Price, $24.00.
DIST., E. Leitz, Inc.

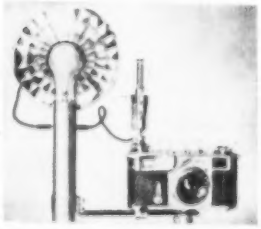
MENDELSOHN

Flasher E. For use with all shutters having built-in synchronization; uses 2 size C batteries; 5-inch aplanatic Twinflector; adjustable for various lamp sizes; bayonet and standard sockets; extension outlets; camera bracket; connecting cord. Prices range from $15.75 to $21.50 including tax.

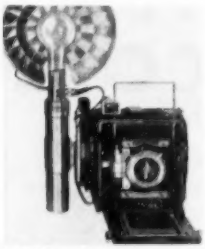
Folding Speedgun Series 1200. Model 1215 for Ansco, Ciro-flex, Kodak, Polaroid Land cameras; Model 1217 for Exacta; Model 1235 for Monte Carlo and Prontor II; and Model 1235A for Compur and Prontor S shutters; uses 3 size C batteries; 5-inch aplanatic reflector; bayonet lamp socket; folding bracket; plug outlet; interchangeable cords. Price, $15 including tax.

Folding Speedgun Series 1400. Four models available as in Series 1200 and for same cameras; uses 3 size D batteries; 7-inch aplanatic reflector; stand lamp socket; folding bracket. Price, $15 including tax.

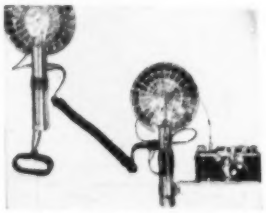
Universal Junior. For synchronized and non-synchronized shutters; aplanatic or parabolic reflector; remote control and extension outlet; cords available for all shutters; tripper switches available; bracket. Price, $15.75 including tax.



Custom Model. Magnetic synchronizer for all speeds with between-the-lens shutters; uses 2 size C batteries; 5-inch aplanatic Twinflector; adjustable for various bulb sizes; bayonet and standard lamp socket; extension and remote control outlets; no adjustments required; designed to operate on the body release of the camera. Price, Model E1040 for Contax, $35.50; Model 1041M for Leica, and Model 1048 for Perfex, $40.



Model E-4. Synchronizes with between-the-lens shutters at speeds from 1/10 to 1/500 sec.; uses three size D batteries; 7-inch aplanatic Twinflector; adjustable for various bulb sizes; combination bayonet and standard socket; presynchronized for all shutter speeds. Price, $26.50. Accessories include remote control, multiflash multiple reflector.



E-1000 Series. Synchronizes with between-the-lens shutters at speeds from 1/10 to 1/1000 sec.; uses two batteries; 5-inch Twinflector for flat lighting; adjustable for various bulb sizes; combination bayonet and standard socket; pre-synchronized for all shutter speeds. Price, $26.50. Accessories available same as above.
MFR., Mendelsohn Speedgun Co., Inc.

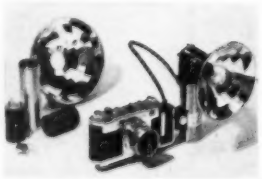
MINIFLASH B-C

B-C flash unit; for cameras with ASA and European contact points; 22½-volt battery; 4-inch reflector; bayonet lamp socket; bulb ejector. Price, $5.50.
DIST., A. G. Photo Distributors.

MORTON MONOFLASH

For cameras with built-in synchronization; 5-inch reflector; bayonet lamp socket; 2 Penlite batteries; all-metal construction. Price, $7.95 including tax.
MFR., The Morton Co.

NIKON



B-C unit; 22½ volt hearing-aid type battery; test bulb; extension tube enabling use of three "D" size flash batteries; connecting cord; two extension outlets; open flash switch; bulb ejector; tripod socket threaded base. Price, with midget and large size reflectors, $41.30.
DIST., Nikon Camera Co.

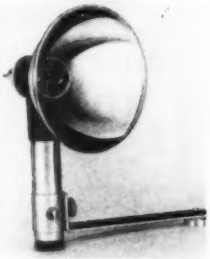
POLAROID

Polaroid Flash Gun 200. For use with Polaroid Model 95 camera; takes 2 flashlight batteries; bayonet lamp socket. Price, $11.

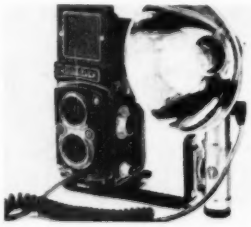
Polaroid Capacitor Flash 201. Synchronizes with Polaroid Model 95 camera; uses 22½ volt hearing-aid type battery; bayonet lamp socket. Price, $17.25.

Polaroid Pathfinder B-C. For use with Polaroid Pathfinder Model 221 camera; uses 22½ volt hearing-aid type battery; bayonet lamp socket. Price, $19.95.
MFR., Polaroid Corp.

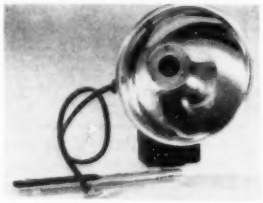
PRACO



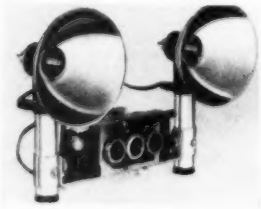
Duo-Flector. Mechanical synchronizer and flashing unit for all cameras except those having focal-plane shutters; uses 2 medium batteries; 3-cell case available; 5½-inch reflector, adjustable for either screw base or bayonet base lamps; without adapter; bulb ejector; extension outlet. Model A for Argoflex, and Ciro-flex cameras with Alphax shutters, $15.45; Model B for all other non-synch shutters, $15.45; for cameras with synchronized shutters, $14.25; 3-cell cases for above models, $16.20 and $14.95.



Duo-Master. Mechanical synchronizer; same as above. Price, model A, $20.15; model B, $20.15; Prof., $15.85.



Compresso-Flash. Same as above but with 5-inch reflector; bayonet lamp socket; made of Tenite. Price, model A, model B, $7.15.



Duo-Stereo. For Stereo Realist, Revere 33; takes 2 C size batteries; 5½-inch reflector; adjustable reflector for various bulb sizes; extension outlets. Price, $29.50.

Manufacturers' and distributors' addresses begin on page 194

Flashmaker. Mechanical synchronizer for between-the-lens shutters, for speeds from 1/25 to 1/250 sec.; uses 2 medium batteries; 5-inch reflector; screw base lamp socket; adapter for bayonet base lamps; tripper allows use of delayed-action timer or cable release; bulb ejector. Price, $8, model A or B.

PRACO FLASH UNIT

For cameras with built-in synchronization; 2 medium batteries; 5-inch reflector; adjustable reflector; standard lamp socket; bulb ejector. Price depends on unit needed for particular cameras, on request.

PRACO B-C FLASH

Battery capacitor flashing unit for use with all cameras having built-in synchronization; uses 22½-volt battery and electrolytic condenser; 5-inch polished parabolic reflector; reflector adjustable for bulb sizes; standard lamp socket; extension outlet; polarized shutter outlet; available with standard ASA or Prontor-S type connecting cords. Price, for pre-synchronized cameras, $12.45; for non-synchronized, $13.25; with Duo-Flector head for pre-synchronized cameras, $17.75; with Duo-Flector head for non-synchronized cameras, $19.

MFR., Praco Photo Products Co., Inc.

•

RAY-O-FLASH SYNCHROMAT

Mechanical plunger-type synchronizer made of transparent Lucite material; utilizes plunger for connection to any shutter using cable release; adjustable by the user; outlet for connection to flashgun. Price, $12.50 including tax.

MFR., American Cinefoto Corp.

•

ROYAL FLASH

Metal flashing unit; bracket; automatic ejector; interchangeable cable. Price, $6.80.

ROYAL B-C LUX

Pocket flash unit; plastic; with bracket; uses Eveready battery No. 412; 22½ volt; extension outlet; tripod screw; interchangeable cable, built-in test light; automatic ejector. Price, $9.98.

ROYAL FLASH B-C

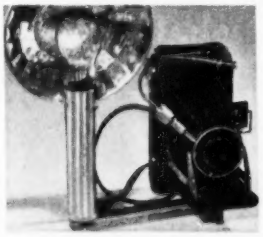
B-C unit with bracket; interchangeable cable; uses Eveready battery No. 412; 22½ volt; automatic ejector; testing lamp. Price, $10.20.

DIST., Schmidt & Co.

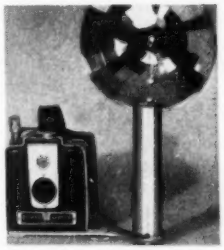
•

SERVICE

Flashmaker. Synchronizes with between-the-lens shutters at speeds from 1/25 to 1/500 sec.; uses two medium batteries; 5-inch polished, faceted reflector; adjustable for various bulb sizes; standard socket; bulb ejector.



Price, $8.00. Accessories include midget bulb adapter. Deluxe model with extension flash outlet, $9.70.



Service Model for the Brownie Hawkeye camera; mechanical synchronization with camera set at 1; same features as Snapflash model, but has encircling clamp for the camera. Price, $4.40.

Mechanical synchronizer for between-the-lens shutters set at Instantaneous; uses 2 Type C batteries; 5-inch multi-faceted reflector; adjustable for various bulb sizes; standard lamp socket; synchronizes with most box cameras. Price, $4.40.

Model for use only with the Kodak Duaflex camera; uses two medium cells; has 5-inch polished reflector; adjustable for various bulb sizes; standard socket. Price, $4.40.

Model for use with Kodak having built-in synchronization. Price, $7.20. Accessories available include midget bulb and adapter.

Brownie Reflex Model similar to above. For use with the Brownie Reflex only. Price, $4.40.

Ansco Pioneer Model for use with the Pioneer camera only; uses two medium cells; has 5-inch polished reflector; adjustable for various bulb sizes; standard socket; bracket fit over top of camera. Price, $3.25.

Ansco Flash Clipper Model similar to above. For use with Flash Clipper only. Price, $4.42 including tax.

Model for Brownie Flash 620 only. Price, $3.85.

Model for use with the Ansco Rediflex only. Similar to the above model. Price, $3.85.

Model for use with Kodak pre-synchronized cameras, for use with all shutters having ASA type fittings; uses 2 C cells; for screw base lamps; 5-inch reflector; cord; adjustable reflector. Price, $7.20. Midget lamp adapter available.

MFR., Service Photo Supplies, Inc.

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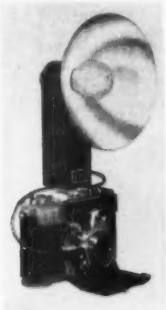
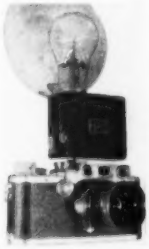
SIMS



Model 1c. For use with all cameras having synchronized Compur or Prontor shutters and accessory clip on body; uses 4 penlite cells; 5-inch parabolic reflector; bayonet lamp socket; lamp ejector; extension flash outlets. Price, $10.95.

Model 2a. Same features as above, but for use with Contax IIa and Contax IIIa. Price, $9.95.

Model 3f. Same features as 1c, but for use with Leica IIf and Leica IIIf. Price, $9.95.



Model D-2. For use with Leica, Kardon, Nicca, Canon, Leotax and Tower cameras; synchronizes with focal plane shutter from 1/20 to 1/1000 sec.; uses four penlight battery cells, for 6-volt operation; 4½-inch spun aluminum with etched, satin surface reflector; standard socket; slips on camera accessory clip; case contains warning pilot light and safety switch. Price, $17.50 including tax.

Special. Identical to above, but for use with any Leica camera of series I, A, C, or E; must be fitted at factory. Price, including installation, $20.50, inc. tax.

MFR., R. A. Simerl Mfg. Co.

SLAVEY

Remote slave unit; separate outlets for flashbulbs or electronic flash units; sensitive up to 300 feet; dry cell operation. Price, $17.95.

MFR., Sterling-Howard Corp.

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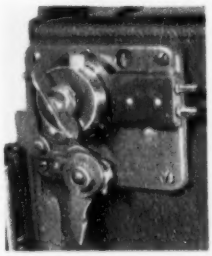
SMEATON



For Speed Graphic and Graflex cameras; synchronized with curtain shutter at factory. Price for installation, $19.50 complete.

MFR., Smeaton Company

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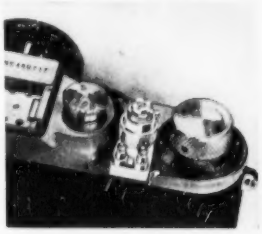
SPECTRA SYNCH



Electrical contact synchronizer for Leica and Contax cameras; screws into body release guard threads; recommended for focal-plane shutter speeds up to 1/1000 sec.; does not interfere with any normal camera operations; may be left in position permanently; threaded for use with Leica cable releases. Price, $17.50, inc. tax.

MFR., Photo Research Corp.

•

STEKY FLASH

Mechanical flashing unit; synchronizes with between-the lens shutter at 1/25 sec.; for Steky camera; 2 penlight batteries; pan-type reflector; midget bulbs; bayonet lamp socket. Price, $5.25.

DIST., Wilmot Sales Corp.

Manufacturers' and distributors' addresses begin on page 194

HERE IT IS... the 1953 PHOTOGRAPHY $25,000.00 INTERNATIONAL PICTURE CONTEST

In United States Savings Bonds (Series E) plus Trophies and Certificates of Award

NEW:

Norris Harkness Well-known syndicated photographic columnist and president of The Photographic Society of America.

Wilson Hicks Noted picture consultant, and former executive editor, *Life* magazine.

Irving Penn Distinguished color and fashion photographer on the staff of *Vogue* magazine.

Arthur Rothstein Technical director of photography at *Look* magazine.

SEPARATE PRIZES for Black-and-White, and for Color.

NO LIMIT on the number of entries from any contestant.

TRAVELING EXHIBITS to be shown in principal cities of the world.

RULES OF THE CONTEST

1 The Contest is open to all persons, except employees of PHOTOGRAPHY, Ziff-Davis Publishing Company, and their families. CONTEST OPENS MARCH 10 and CLOSES JULY 1, 1953. No entry fee is required.

2 There will be a Black-and-White Division and a Color Division; each will be judged separately. Any number of black-and-white prints, color prints, or color transparencies may be submitted by any entrant, in conformity with the following regulations: Color prints and/or transparencies must be submitted separately from black-and-white entries. There are no restrictions as to subject matter or size, in either Division, although 5x7 or larger prints are preferred. No acknowledgment of receipt of entries will be sent, unless entrants enclose an addressed postal card to be signed and returned.

3 Prints may be either mounted or unmounted; this is optional with entrants.

4 Pictures which have been published in, or accepted for publication or are under consideration by any other photographic magazine, are not eligible. Publication in any other medium does not make prints or color transparencies ineligible.

5 Each print or transparency must have secured to it a filled-in entry blank as provided here, or facsimile thereof. Please print or typewrite the information requested on the blank. Additional entry blanks are obtainable from photo dealers and finishers, or direct from the Contest Editor of PHOTOGRAPHY if request is accompanied by a self-addressed and stamped envelope.

6 All prints and transparencies will be held for judging after July 1, 1953, and no entries will be returned until after announcement of the winners has been published in the December, 1953 issue of PHOTOGRAPHY. Pictures which did not win prizes will then be returned as quickly as possible, *provided that self-addressed and stamped envelope, or addressed label and postage, were contained in the same package in which each lot of entries was sent. Do not send postage separately for return.* The Contest Editor cannot enter into correspondence of any kind regarding entries.

7 Prize-winning pictures, including all reproduction and promotional rights, become the exclusive property of PHOTOGRAPHY. All entrants who win prizes will be required to furnish original negatives before prizes are given. All prize-winning negatives become the exclusive property of PHOTOGRAPHY.

8 A distinguished jury of experts listed above will judge the Contest. Their decisions will be final. In the event of a tie, duplicate prizes will be awarded.

9 Address all entries to Contest Editor, PHOTOGRAPHY, 270 Park Avenue, New York 17, N. Y. Final entries must be postmarked not later than midnight of July 1, 1953. Prize-winners will be announced in the December, 1953 issue of PHOTOGRAPHY. While exercising the utmost care in handling entries, PHOTOGRAPHY assumes no responsibility for loss or damage of Contest entries.

10 Prizes will be United States Savings Bonds, Series E. Values of prizes listed are maturity values of the Bonds. Prize-winners who are not United States citizens will receive, in lieu of Bonds, a check in the amount of the purchase price of the Bond award.

11 FOREIGN ENTRANTS: The above rules apply to all entries, except that prints and transparencies submitted by persons residing in foreign countries are eligible for consideration only if accompanied by return postage. International Reply Coupons are acceptable as postage.

This distinguished jury to judge the contest –

W. Eugene Smith Outstanding *Life* staff photographer.

Edward Steichen Dean of American photographers. Director of Photography Department, Museum of Modern Art.

Frank Zachary Graphics editor, *Holiday* magazine and formerly publisher and editor of *Portfolio*.

Ex-officio member
Bruce Downes
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280 PRIZES*

BLACK & WHITE	COLOR	TOTAL
1st $2,000 U.S. Savings Bond, plus Trophy	**1st** $2,000 U.S. Savings Bond, plus Trophy	$4,000
2nd $1,000 U.S. Savings Bond, plus Trophy	**2nd** $1,000 U.S. Savings Bond, plus Trophy	$2,000
3rd $750 U.S. Savings Bond, plus Trophy	**3rd** $750 U.S. Savings Bond, plus Trophy	$1,500
4th $500 U.S. Savings Bond, plus Plaque	**4th** $500 U.S. Savings Bond, plus Plaque	$1,000
5th $250 U.S. Savings Bond, plus Plaque	**5th** $250 U.S. Savings Bond, plus Plaque	$500
50 Prizes, U.S. Savings Bonds, each $100	**50** Prizes, U.S. Savings Bonds, each $100	$10,000
*70 Prizes, U.S. Savings Bonds, each $50		$3,500
100 Prizes, U.S. Savings Bonds each $25		$2,500
	GRAND TOTAL	$25,000

In the event of a tie, duplicate prizes will be awarded.

FINAL CLOSING DATE: JULY 1, 1953

USE THIS ENTRY BLANK

Each one of your entries must be accompanied by a filled-in entry blank provided here, or a facsimile of it. Your photo dealer or your finisher has additional blanks on hand should you need them; or you can obtain entry blanks from the Contest Editor of PHOTOGRAPHY. Your request for more blanks should be accompanied by a self-addressed stamped envelope.

**Values given are maturity values of the bonds. Bonds will be delivered in denominations requested by prize-winners. Each prize will be accompanied by a certificate of award suitable for framing. This certificate is printed on fine parchment stock and will bear the hand-lettered name of the winner.*

USE THIS ENTRY BLANK (PLEASE PRINT) 1953

Contest Editor, PHOTOGRAPHY
270 Park Avenue, New York 17, N. Y.

Please enter the enclosed picture in the PHOTOGRAPHY Picture Contest for 1953. It is submitted in accordance with the rules, which I have read.

Name.....

Street.....

Town..... Zone..... State.....

Picture Title..... Have You a Model Release?.....

Where Made.....

Camera Used..... Lens.....

Exposure: Lens stop..... Shutter Speed.....

Film Used..... Filter.....

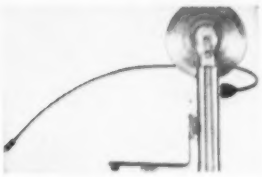
Lighting..... Paper.....

Published before?..... Where?.....

CAUTION: Postage must accompany entry if you want this picture returned in the event that it does not win a prize (See Rule 6).

PRIZE-WINNERS ANNOUNCED: DECEMBER, 1953 ISSUE

STERLING-HOWARD SOL-LITE



Mechanical synchronizer for between-the-lens shutters at speeds from 1/25 to 1/200 sec.; for all cameras with built-in synchronization or cable release sockets; uses 2 Type D batteries; 5-inch aplanatic reflector adjustable for various bulb sizes; standard lamp socket. Price, $8.95 including tax.
DIST., Sterling-Howard Corp.

TELEFLASH

Photoelectrically controlled flash lamp synchronizer (slave lamp); synchronizes automatically with firing of flash bulb off camera; responds only to pulses of light such as flash lamps produce; fires SM, SF, #5, #25 flash lamps; rear outlet permits unit to be used as a B-C battery case; unit on SR Universal Quick-Change clamp. Price, $49.95.
MFR., Strobo Research.

•

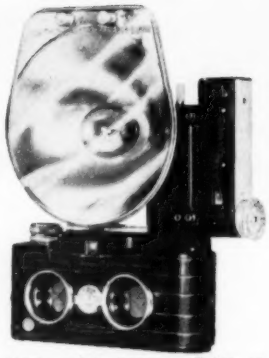
VACU

Mechanical synchronizer; for Leicas 215, 651 to 111f; 22½ volt B-C batteries; 6½" shallow, dull finish reflector; reflector adjustable; bayonet and standard lamp socket; folding reflector; multiple flash socket. Price, $33.
DIST., E. Leitz, Inc.

•

VIEW-MASTER FLASH

Primarily for View-Master Personal Stereo camera but with bracket can be used with any camera; 3 penlight batteries; 5-inch reflector; bayonet lamp socket; has rangefinder exposure calculator. Price, $19.75.
MFR., Sawyer's Inc.



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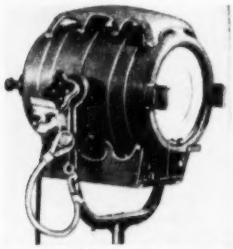
LIGHTING EQUIPMENT

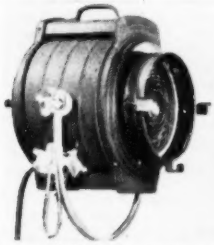
BARDWELL & McALISTER

Boom Light. Uses Baby Keg-Lite as light source; roller stand with boom arm; filter holders; boom in balance at 12½ feet from floor; permits any light positioning; 25-foot cable. Accessories include barn doors, snoots, diffusers, Macbeth filters, and the Foco-Spot unit. Price, $160.30, less accessories.



Baby Keg-Lite. Focusing by calibrated scale from 4 to 44°; uses 500 to 750-watt T-20 or T-24 with med. bi-post base; roller stand; filter holders; yoke; 25-foot rubber cable; Fresnel lens. Available accessories include, barn doors, snoots, diffusers, low arm bracket, differ box, leg turtle weights, Macbeth filters, table base, Foco-Spot to produce round or rectangle-shaped sharp beam. Price $58.50, less accessories.

Junior Spot. Focusing; uses 2000-watt bi-post lamp; gravity ventilation; no light leaks; roller stand; filter holders; Fresnel lens; U-type yoke; 25-foot heavy-duty cable. Accessories include, barn doors, snoots, diffusers, and Macbeth filters. Price, $58.50, less accessories.



MFR. Bardwell & McAlister, Inc.

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BEATTIE HI-LITE

Baby Hi-Lite. Screw focusing; Fresnel lens; uses 100, to 250-watt bayonet-base lamp; natural draft ventilation; available with or without stand; filter holders; includes diffusers, blue filter, 20-foot cable. Price on request.

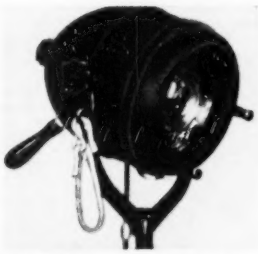
Senior Boom Lite. Screw focusing; Fresnel lens; uses 500, 750, or 1000-watt T-20 pre-focus lamp; stand with boom arm; upper riser is counter-balanced; collapsible legs; filter holders; includes lamp, spun-glass diffuser, fluorescent filter, and 20-foot cable. Price on request. Accessories include barn doors and snoot sets.

Super Boom Lite. Similar to the Senior Boom Lite model except uses 500-watt T-20 medium screw lamp; does not have counter-weight feature; Price on request. Accessories same as above.

Baby Boom Lite. Focusing; uses 100 or 250-watt bayonet-base lamp; Fresnel lens; stand and boom arm; collapsible base legs; filter holders; spun-glass diffuser, fluorescent filter, and 20-foot cable. Price on request.

2 K. W. Cine-Lite. Knob-and-lever focusing; Fresnel lens; uses 2000-watt G-48 bi-post lamp; ventilation through cylindrical baffle; filter holders; includes spun-glass diffuser, 25-foot rubber cable, stage plug. Price on request. Regular stand and small floor stand available as accessories.

Super Hi-Lite. Focusing; Fresnel lens; uses 500-watt T-20 lamp; with or without stand; filter holders; takes 6-inch barn doors and snoots; includes diffuser, blue filter, and 20-foot cable. Price on request. Accessories include barn doors, snoot sets, etc.



Senior Hi-Lite. Similar to the Super Hi-Lite model, except it uses 500, 750, or 1000-watt T-20 pre-focus lamp; includes diffuser, filter, and 20-foot cable. Price on request. Accessories same as above.

MFR. Otto K. Olesen Co.

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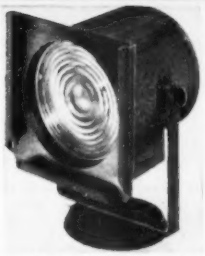
BOHLING

Model 1169. Focusing; uses 100-watt G-16½ lamp; 3-inch Fresnel lens; mask slot; filter holders; mounted on 3-inch aluminum base; 6-foot cable; fitting can be furnished to mount on tripod stand; U-type yoke. Price on request.

Model 065. Focusing; uses 250 or 500-watt T-20 lamp, or 250 or 400-watt G-30 lamp with pre-focus base; 6-inch Fresnel lens; mask slot; filter holders; U-type yoke; table base; gives soft-edge beam at all focusing position. Price on request.



MFR. F. A. Bohling.

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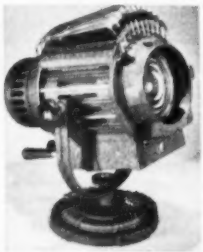
GOLDE

Hi-Liter. Finger-tip Beam-control device; Fresnel lens; uses 100-watt T-8 or 150-watt G-16½ lamp; tripod socket; table base; designed for booms, ceiling, or stand; removable panning handle. Price, less lamp, $10. Spiral louvre and light stand available as accessory.

Rotochrome Color-in-Motion Spotlight. Push-pull focusing; condenser lens; uses 250, 400, or 500-watt pre-focus lamp; natural draft ventilation; changes 6 colors per minute; self-starting; table base; adjustable beam size; wire heat guard. Price, less lamp, $29.75. Ceiling or wall mounting bracket available as accessory.

Bantam Spot. Push-pull focusing; Fresnel lens; uses 500-watt T-20 pre-focus lamp; fluted cooling; special wire heat guard; table base. Price, less lamp, $19. Accessories include snoots, telescoping stand, blinder, diffuser, color frames, and ceiling brackets.



Bantam Super Spot. Focusing; Fresnel lens; blower cooled; uses 250, 500, 750, or 1000-watt T-20 pre-focus lamp; wire heat guards; 10-foot cord; has full tilting. Price, less lamp, with table base, $31. Accessories same as above.

MFR. GoldE Mfg. Co.

KANCO

Home Portrait Meter Device. Device for setting up lights and giving proper exposure for various set-ups. Consists of lighting manual, 32 pages, and measurement device for arranging lights.

MFR., Kanco Photo Corp.

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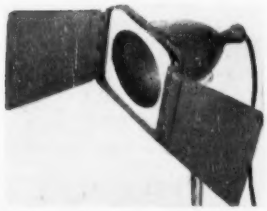
GROVER



Model 750 Spot. Non-focusing; Fresnel lens; 150-watt PAR 38 spotlight lamp recommended; any reflector-type floodlamp or spotlight lamp can be used; tripod socket; filter holders; adjustable revolving barn doors; provision for silk screens. Price, $15 plus tax. Available accessories are snoots.

MFR., Grover Photo Products.

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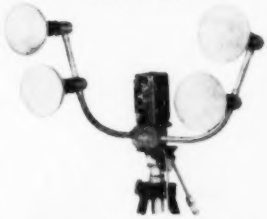
MAYFAIR



Flexmaster. Adjustable 4-light unit; rotary dimmer switch for three levels of light from dim to bright. Lifetime guarantee. Price, $14.95.

Multi-Lite Sr. Four-light unit; fixed position of bulbs; rotary dimmer switch for three levels of light from dim to bright. Lifetime guarantee. Price, $9.95.

Multi-Lite Jr. Two-light unit; fixed bulb position; a-c, d-c, on-off switch. Lifetime guarantee. Price, $6.50.

Extendolite De Luxe. Four-light unit; rotary dimmer switch for three levels of light from dim to bright. Lifetime guarantee. Price, $12.95.

Extendolite Jr. Two-light unit; a-c, d-c, on-off switch. Lifetime guarantee. Price, $7.50.

Flexolite De Luxe. Two-light unit; rotary dimmer switch for three levels of light from dim to bright. Price, $10.95. Flexolite 660 model with a-c, d-c, on-off switch, $9.95.

Dualite Special. Flexible two-light unit; removable horizontal pan head. Price, $7.50.

Boom-Lite. Adjustable unit for overhead bounce and spot lighting; rotates 360 degrees; extends, retracts for overhead shooting; switch control from operator's position. Price, $6.95.

Foldomatic Super. Adjustable four-light unit; rotary dimmer switch for lighting from dim to bright. Price, $14.95. Foldomatic Pocket Model, 2 lights, price, $10.95.

MFR., Mayfair Mfg. Co.

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MOLE-RICHARDSON

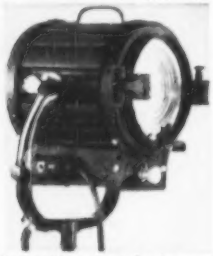
Junior Solarspot Model 410. Focusing; Fresnel lens; uses 1000 or 2000-watt mogul bipost lamp; ven-

Manufacturers' and distributors' addresses begin on page 194

tilation through interlocking channels; roller stand; collapsible and telescoping; yoke; long rubber cord;

for heavy duty. Price on request. Available accessories include diffuser frame, barn doors, stand bracket.

Baby Solarspot. Focusing; Fresnel lens; uses 500 or 750-watt lamp; ventilation through interlocking channel construction; roller stand; collapsible and telescoping; yoke; long



rubber cord; rugged for heavy duty. Price on request. Accessories same as above.

Midget. Focusing; Fresnel lens; uses 200-watt lamp; ventilation by louvers; table base; tripod socket; yoke; filter holders; Price on request. Barn doors available as accessory.

Blue Zephyr Junior Model 2000. Scale focusing; Fresnel lens; uses 1,000-watt or 2,000-watt G-48 lamp; aluminum construction; Alzak mirror; channel cooling; attached rotating barn doors; folding pedestal; diffuser. Price on request.

Blue Zephyr Baby Model 750. Scale focusing; Fresnel lens; uses 750-watt medium bipost lamp; ventilation through interlocking channel construction; yoke; rotating barn door; diffuser frame; long rubber cord; for heavy duty. Available either with

Auxiliary Pedestal, Model 750S or Blue Comet Boom, Model 75. Model 750S is collapsible and telescoping; rubber casters. Blue Comet Boom, Model 75, is collapsible and telescoping; locking rubber-tired casters; air brake in boom; boom arm adjustable from flat to upright; brake drum control at balancing point. Prices for all combinations on request. Accessories available for Model 750 are stand brackets.

MFR., Mole-Richardson Co.

READ PHOTO

Atlas Boom Light Stand. Boom extends 10 feet high; telescope arm 7 feet long; aluminum construction; weight 8 lbs. Price, $8.95.

DIST., Read Photo Products.

VICTOR LIGHTING

Flood-Master. Variable position light unit; three lamps; designed for movie cameras; 15-foot cord; vertical and horizontal tilting. Price, $9.95.

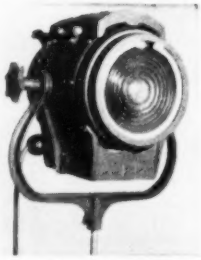
Bar-Lite. Two light unit; hand or tripod use with movie cameras. Price, $5.95.

Mini-Boom. For high spotlighting, overhead lighting, low lighting; 10-foot elevation; 44" aluminum boom assembly. Price, $9.95.

Tri-Flood. Three lamp unit; horizontal and vertical angling; 15-foot cord; handle with locking device. Price, $7.95.

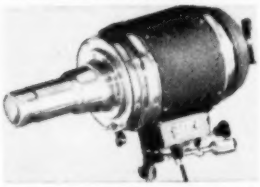
MFR., James H. Smith & Sons Corp.

SUN RAY 16



Focusing; 6-inch Fresnel lens; uses 750-watt T20 or T24 lamp with medium bipost base; convection cooling; yoke. Price, less stand, $55.

SUN RAY MODEL 17



Focusing; condenser lens; uses 500-watt T-20 lamp; has ventilation provisions; adjustable socket; diaphragm; special detachable focusing attachment; without stand. Price, $42.50.

MFR., Sun Ray Photo Corp.

PRINT DRYERS

AREL

Kent Single Dryer. Electrical, a-c or d-c; for semi-matte, matte, and glossy prints; accommodates up to 5x7 prints; takes ferrotype tins; made of polished aluminum drying surface and washable canvas. Price, $8.95.

Kent Double Dryer. Electrical, a-c or d-c; takes up to 5x7 prints, semi-matte, matte, and glossy prints; takes ferrotype tins; dries eight 5x7 prints at one time. Price, $12.95.

DIST., Arel, Inc.

ARKAY

Arkay Model A-24. Electrical; adjustable apron tension mechanism; disconnect switch; chrome surface; variable heat selector; drying area, 19½x24; 110x120 a-c recommended line voltage. Price $48.95.

Arkay Model A-20. Same features as Model A-24 except that drying area is 15¼x21 inches. Price $44.45.

Arkay Flipper F-14. Electrical; takes up to 11x15 prints; 2 drying surfaces; accommodates ferrotype tin; 110 a-c, d-c recommended line voltage; 265 watts; double-sided dryer; unit controlled by fixed heating element electronically measured not to overheat; variable apron tension. Price, $14.25. With 2 built-in chrome ferrotype plates, $19.25.

Arkay Flipper F-17. Electrical; accommodates prints up to 12x17 (2 drying surfaces); takes ferrotype tins; thermostatic control; 110-120 a-c recommended line voltage; 430 watts; heat selector provides complete control over a large range of temperatures. Price, with chrome ferrotype tin built-in, $29.45; without, $21.45.

Arkay E-10. Electrical; takes up to 11x15 prints; optional built-in ferrotype tin; takes ferrotype tins; 110 a-c or d-c recommended line voltage; 205 watts; single-sided dryer; all welded steel construction; balanced heating element. Price, $9.25 including tax; with built-in chrome ferrotype tin, $11.95.

MFR., Arkay Corp.

BURKE & JAMES

Roxe Double Duty Dryer. Electrical; will take 750 2¼x3¼ prints per hour; takes 2 prints up to 18x24 inches; takes 2 ferrotype tins; thermostatic control on a-c models; 115 recommended line voltage; reversible, dries matte or glossy prints. Price, $47.11.

MFR., Burke & James, Inc.

FEDCO

300 Twin Surface. Electrical; takes up to 2 prints 16x20; accommodates ferrotype tin; 110 recommended line voltage; 350 watts; handy knobs to turn dryer; tension device for keeping apron tight. Price, $23.50.

250 Twin Surface. Similar to the above model in features and design; takes 2 prints, 8x10, on each side; size 11½x17½; 110-volt, a-c, d-c; 300 watts. Price, $16.25.

200 Twin Surface. Similar to the above model in features and design; takes 2 prints 11x14; 210 watts. Price, $12.95.

100 Single Surface. Same as above except has only one surface taking up to one 11x14 print; 105 watts. Price, $8.95.

MFR., Fedco Products.

LIGHTNING-LITE

Portrait Print Dryer. Electrical; takes 350 8x10 prints or its equivalent; accommodates prints up to 19x25"; time controlled so that unit will shut off at pre-set drying period; dries face-up with proper curvature; uses blotter - corrugated - cardboard stack method; heat passes through narrow way for rapid drying; all-metal construction. Price, $145.

MFR., Lightning-Lite Co.

LOTT

Model F. Electrical; accommodates prints up to 12x17 inches; separate ferrotype tin; accommodates 12x17 ferrotype tins; 110 line voltage recommended; adjustable self-centering canvas apron; 11x16 inches ferrotype plate; includes cellulose squeegee polishing cloth. Price, $9.95.

Lott Roto Dryer-Professional Model. Electrical; takes 40 10x14 prints per hour, or 360 3x5 prints per hour; drum-type rotary dryer; mirror finish stainless steel surface, 23x28 inches; 110-120 recommended line voltage; 300 watts; weighs 24 lbs.; pre-shrunk drying belt. Price, $39.50.

RotoMaster Model. Same as Professional Model except it has all-welded construction; built-in squeegee; adjustable curtain tension; all-metal roller. Weighs 29 lbs. Price, $59.50.

Amateur Model. Same as the Professional model except has a 12x28 inch drying surface. $29.50.

MFR., Lott Mfg. Co.

MIDG-O A

Electrical; takes up to 14x17 prints; accommodates 14x20 ferrotype tins; 115 recommended line voltage; 660 watts; dries up to 625 2½x3½ prints per hour, or 50 8x10 prints per hour. Supplied with either regular 120 lb. lintless blotters or laminated muslin blotters. Prices: with regular blotters, $79.50; with delux blotters, $87.25.

MFR., Midg-O Co.

GENERAL PHOTO SUPPLY CO.

Photax. Electrical; takes 24 prints from 2x3 to 8x10; accommodates ferrotype tin 8x10; 110 line voltage recommended; 200 watts; double face drying area; apron clips to hold ferrotype tins. Price, $8.95.

DIST., General Photographic Supply Co.

PREMIER

Premier Model 110 SC. Electrical; takes 8 4x5 prints or 2 8x10; accommodates prints up to 11x16 inches; built-in ferrotype tin; 110 recommended line voltage; thermostatic control; special opening levers to release canvas apron. Price, $12.95.

Premier Model 110 SP. Similar features as Model 110 SC except has no built-in ferrotype tin; accommodates prints up to 11x16 inches. Price, $10.95.

Premier Model 110 TC. Similar to the Model 110 SC except has 2 drying surfaces; takes 16 4x5 prints or 4 8x10; built-in ferrotype tins. Price, $16.95.

MFR., Photo Materials Co.

SPIRATONE

Electrical; takes prints up to 11x14; built-in ferrotype tin; 110 recommended line voltage; 100 watts. Price, $5.95.

MFR., Spiratone.

STERLING-HOWARD

Sterling-Howard Duplex. Electrical; 2 drying surfaces, 12x15 inches; canvas apron with automatic tension locks; rubber feet; 6-foot cord; 225-watt nichrome-wire heating element; for a-c or d-c operation. Price, $10.95.

MFR., Sterling-Howard Corp.

WILLOUGHBY'S

Superb Print Dryer Model 300. Electrical; takes up to 14x17 prints; accommodates 14x20 ferrotype tins; thermostatic control; 110 recommended line voltage; 300 watts; 16½x 20½ drying surface; clips hold tins in place; double faced drying surface. Price, $23.50.

Superb Print Dryer Model 200. Electrical; takes up to 11x14 prints; accommodates 10x14 ferrotype tins; thermostatic control; 110 recommended line voltage; 200 watts; 11½x 15 inch drying surface; has clips to hold ferrotype tins in place; double-faced drying area; dries eight 5x7 prints at one time. Price, $12.95.

Superb Print Dryer Model 100. Same construction features as the above model. Price, $8.95.

DIST., Willoughby's.

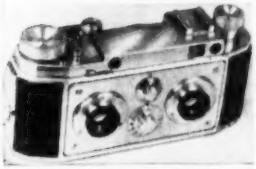
Manufacturers' and distributors' addresses begin on page 194

STEREO EQUIPMENT

BOLEX STEREO SYSTEM

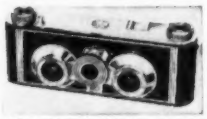
For use on H-16 Deluxe Bolex camera and almost all 16-mm projectors; f/2.8 stereo taking lens; fixed focus; viewfinder bracket and mask; f/1.6 stereo projection lens with adapter to fit most projectors; stereo screen, 26"x34"; two Polaroid viewing glasses. Price, without camera, $397.50; with camera, $715.50.
MFR., BOLEX.

BUSCH VERASCOPE F-40



Cartridge, 35 mm; stereoscopic camera; 21 exposures, 30x24 mm in stereo pairs, or 42 exposures, 30x24 mm in single shots; coated 40-mm Berthiot f/3.5 lens; guillotine-type shutter, speeds from 1 sec. to 1/250 sec., T & B; built-in flash synchronization; eye-level finder; coupled rangefinder focusing; exposure counter; coupled film advance and shutter cocking. Price, $269.50, inc. tax. All accessories available, including lens shade, filters, eveready case, and viewing and binding equipment.
MFR., Busch Camera Co.

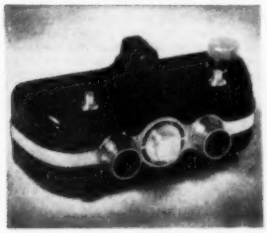
ILOCA STEREO II



Cartridge 35 mm; 29 stereo pairs on a standard roll, A.S.A. standard 23x 24 mm; matched f/3.5 coated 35-mm Illtar lenses in shutter mounts; depth of field scale; Prontor S shutters, 1 to 1/300 sec., & B; built-in flash synchronization; delayed action timer; all controls coupled; center-wheel focusing; double-exposure prevention; optical eye-level finder; manual focusing; all-metal camera construction; exposure counter; removable back. Price, $125, inc. tax; eveready case, $12; Pentax Sports Finder with built-in Spirit level, $7.50.
DIST., Ercona Camera Corp.

KEYS STEREO CAMERA

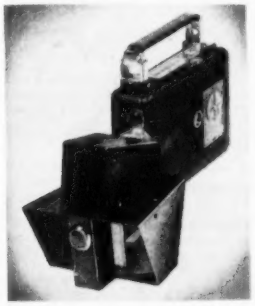
Rollfilm size 828; 6 stereo pairs or 12 single exposures; fixed focus f/8 lenses; simultaneous dual shutter, 1/50



sec.; eye-level viewfinder. Price, $27.20, inc. tax; case, $4.95.
MFR., Keys Stereo Products.

NORD

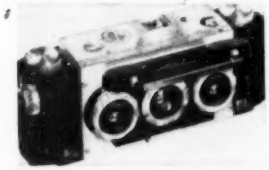
Movie stereo converter for 16-mm movie cameras; fits over taking lens;



does not affect normal picture-taking procedure except for increase of 2/3 stop in exposure; produces vertical format stereo pairs. Price, $45; bracket, $8; prices do not include tax.

Stereo converter for 16-mm movie projectors; for use in projecting movie footage exposed in conjunction with use of Nord stereo movie converter; placed in front of projector, mounted on stand, supplied. Price, $23; stereo screen available, $7.50, prices do not include tax.
MFR., The Nord Co.

STEREO REALIST

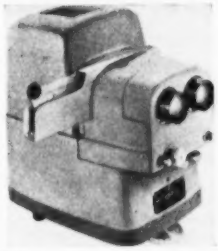


Cartridge 35 mm; up to 29 sets of stereo exposures; two-lens stereoscopic camera; 35-mm coated David White Co. anastigmat f/3.5 lens; ring set, gear-retarded shutter; speeds from 1 sec. to 1/150 sec., T & B; built-in synchronization; eye-level finder; scale focusing; coupled split field military-type rangefinder; hyperfocal distance table; depth of field guide; exposure counter. Price on request. Complete accessories available.

STEREO REALIST MODEL ST42

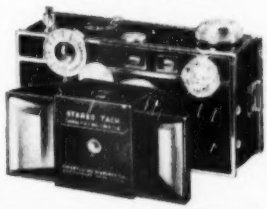
Same as Model ST41 except for matched f/2.8 coated Kodak Ektar four-element lenses; shutter speeds from 1 to 1/200 sec., T & B. Price, $227.50; case $11.25.
MFR., David White Sales Co.

TDC STEREO VIVID



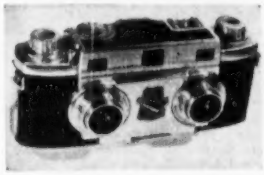
Takes 35-mm stereo slides; also standard 2x2 slides for regular projection; has dual projection system with matched coated 5-inch anastigmat f/3.5 lenses for three-dimensional projection in color; lenses simultaneously focused with compensating adjustments; 2 500-watt lamps with dual condensing system and independent light controls (larger lamps may be used); blower-and-duct cooling system; a-c operation only. Price, $175, inc. tax; case, $20. Stereo Vivid with 4-inch lenses, $185, models for d-c use available at extra charge of $10. Accessories include Polaroid plastic spectacles, $2; Polaroid cardboard viewers with earpieces, $.35.
MFR., Three Dimension Co.

STEREO-TACH



Stereo converter for single lens camera up to 4x5 size; attaches through adapter ring or universal mount; produces vertical stereo pairs; for 35-mm slides; outfit 404 including Stereo-Tach and illuminated slide viewer, $22.50; outfit 100 for prints with 35-mm or larger cameras, Stereo-Tach and print viewer, $16.25; for Polaroid Land Camera, outfit 100-PL, including Stereo-Tach and print viewer, $16.25. 'Tach-Lite 666 illuminated slide viewer, $9.75. Slide viewer 103, non-illuminated, $4.95. 'Tach-Lite 303, $4.95. Print viewer 104, $3.50.
MFR., Advertising Displays, Inc.

REVERE 33 STEREO



35-mm; 20 to 36 exposures; automatic film transport and shutter cocking mechanism; two matched, coated 35-mm f/3.5 Revere Wollensak Amaton lenses; coupled rangefinder; shutter speeds from 1/2 to 1/200 sec., T & B; built-in synchronization. Price, $174.50.
MFR., Revere Camera Co.

STEREO-FLECTOR

Adjustable mirror reflector for projecting slides made with Stereo-Tach; converts standard single lens projector to stereo projector; outfit 211, $37.50. Outfit 205, including Stereo-Flector, spectacles and filters, $27.50. Aluminized screen 107, 24"x 36", $11.60.
MFR., Advertising Displays, Inc.

VIDEON

Cartridge 35-mm; 16 or 29 23x24-mm stereo pairs; matched coated 35-mm Ilex Triplet f/3.5 lenses; depth of field scale; matched Ilex stereo shutters, speeds 1/10 to 1/100 sec., T & B; built-in synchronization; eye-level viewfinder; manual focusing; eveready case; Price, $97.48; case, $14.75.
DIST., Videon Camera Sales.

VIEW-MASTER

Stereo; 35-mm 37 pairs of exposures from roll of 20, 69 from roll of 36, 10x11-mm; View-Master Anistigmat 25-mm f/3.5 coated lens; depth of field scale; View-Master shutter, 1/10 to 1/100 sec., B; built-in FM synchronization; eye-level finder; level bubble in viewfinder; body release shutter; price, $149. Leather case, $14.75.
MFR., Sawyer's Inc.

PROJECTION SCREENS

AURORA

Model S. Glass beaded; tripod type; square size screens adjustable to oblong shape; equipped with square-tubed tripod. Sizes from 30x40 to 52x70 inches; priced from $19.95 up. Seven different sizes available.

Model C. Glass beaded; tripod type; three sizes from 30x40 to 37x50 inches; priced from $13.75 up.

Model D. Glass beaded; hanging type; includes case; hanger brackets; 10 models; sizes from 30x40 to 84x84 inches; square and rectangle; priced from $11.50 up.

Model E. Glass beaded; table (easel) model; furnished with wire easel and rubber tip; 4 sizes, from 13x18 to 30x40 inches; priced from $1.95 up.
MFR., Yankee Photo Products Corp.

CRYSTAL BRITE

Table Model. Beaded surface; matte-white; standard type table model; 5 sizes available; 18x24 to 30x30 inches; prices from $2.95 to $6.

Wall Model. Glass beaded; spring roller; 30x40 to 37x50; prices from $8.95 to $13.50.

Model 1000. Glass-beaded; standard folding tripod type; spring rollers in metal case; 3 sizes; 30x40 inches, $10.95; 40x40 inches, $14.50; 37x50 inches, $17.50.

Model 1300. Glass-beaded; portable metal box type; dustproof; spring roller; combination tripod and table-type model; size, 30x40 inches; price, $12.95.
DIST., American Camera & Photo Supply Co.

DA-LITE

Handy. Crystal-beaded; table or wall use; base bar to fit standard tripod. One size, 30x30 inches, $7.25.

Model B.* Mildew and flame resistant; crystal-beaded or matte-white; hanging type; spring-roller; all-metal case protects screen when not in use; has brackets for wall or ceiling; sizes from 30x40 to 72x96 inches; priced from $12 to $68.25; square sizes from 40x40 to 84x84 inches; priced from $13.50 to $60.50.

Model C.* Crystal-beaded or matte-white; built in wall and ceiling hangers; spring-roller and all-metal case; sizes from 6x8 feet to 12x12 feet; priced from $94.50 to $192.50. Floor stands available from $50.50 to $60.50.

Electrol. (R) Crystal-beaded or matte-white; hanging screen; electrically operated; limit switch for automatic operation; sizes from 6x8 feet to 20x20 feet; priced from $275 to $520.

Versatol. (R) Crystal-beaded; tripod type; spring-roller; square tube; automatic height adjustment; sizes from 30x40 to 70x70 inches; priced from $18.40 to $46.20. Cases $5.90 to $8.45.

DeLuxe Challenger. Crystal-beaded or matte-white; tripod-type; auto-

Manufacturers' and distributors' addresses begin on page 194

matic, positive locking tripod adjustment; gable-roof legs; sizes, 30x40 to 70x70 inches; priced from $22.55 to $54; cases, $5.75 to $7.70.

Challenger. Push-button portable; adjustable for rectangular picture areas; crystal-beaded surface; mildew and flame resistant. Price, sizes 50"x 50" through 70", $26.50 to $54.75; rectangular sizes 30"x40" through 52"x 70", $24.75 to $47.25. Cases, $5.90 to $8.45.

Picture King.* Crystal-beaded; mildew and flame resistant; all-aluminum tripod; secure locking device; leveler for correct positioning; gravity-opening legs; sizes, 37x50 to 72x96 inches; priced from $43.45 to $104.50; cases, $7.70 to $13.75.

Da-Lite Jr.* Crystal-beaded; table or hanging-type model; screen surface held taut between 2 all-steel tubes by spring wire support; suction cup foot; sizes, 18x24 to 30x40 inches; priced from $3.50 to $7.

Comet.* Crystal beaded; tripod model; preset picture size; adjusts from square to rectangular format; 4 sizes from 30x40 to 50x50. Prices, from $13.75 to $21.50.

Hilo. ® Mildew and flame resistant; crystal beaded; tripod model; adjusts to 3 heights in square and rectangular formats; low position 11 inches from floor; case and fabric removable from tripod for wall or ceiling hanging; 3 sizes from 50x50 to 70x70. Prices, from $35.25 to $54. Cases, $5.90 to $8.45.

® * TRADE MARK.

MFR., Da-Lite Screen Co.

KLEARCITE

Klearcite. Translucent; table type; mounted in frames with feet; rear projection allows pictures to be shown in daylight. Prices and sizes on request.

MFR., Klearcite Screen Co.

PETRICK

Pet Economy. Glass-beaded; tripod model; handle for carrying; automatic spring lock on extension rod. Screen sizes 30x40, 40x40, 37x50 inches; priced at $12.95, $14.95, and $16.95; cases available as accessories.

Pet Wall Model. Glass-beaded; hanging type; spring roller; steel case; 3 sizes, 30x40, 40x40, 37x50 inches; priced at $9, $10, and $14.50; cases available as accessories.

Pet Table Model. Glass-beaded; table model; 2 sizes, 30x40 and 40x40 inches; priced at $12.50 and $15; cases available at $9 and $15.95.

MFR., Petrick Bros., Inc.

RADIANT

Automatic. Glass beaded; fine grain, brilliant Hy-Flect fabric; electrically operated with reversible a-c motor; aluminum screen roller; can be suspended from ceiling or mounted on walls. 15 sizes from 6x8 to 15x20 feet; prices from $205.00.

DLS Screenmaster. Portable tripod; glass-beaded or matte-white, flame-proof, mildew proof, washable Vyna-Flect screen fabric; adjustable screen height and size; snap-out leg opening; screen leveler; 8 sizes from 30x40 to 70x70 inches; priced from $24.95 to $54.95; cases from $5.95 to $8.50.

CM Colormaster. Portable tripod screen for color and stereo projection; silver surface; automatic leg opening; screen leveller; adjustable heights and sizes; added devices for flatness; 8 sizes from 30x40 to 70x70 inches; prices on request.

XL Picturemaster. Vyna-Flect, washable; tripod type; metal tripod with swingout metal case having round end cap, enclosing slat collars; 3 sizes, from 63x34 to 84x84 inches; priced from $89.75 to $102.75.

KC De Luxe Champion. Glass-beaded Hy-Flect fabric; square tubed tripod; automatic leg opening; fully adjustable; no-tear roller pocket; 8 sizes, 30x40 to 70x70 inches; priced from $19.95 to $49.95; cases, $5.25 to $7.50.

QB Leader. Glass-beaded Hy-Flect fabric; full height and screen size adjustability; light weight; 4 sizes, 30x40 to 50x50 inches; priced from $13.75 to $21.50.

EC Wall and Ceiling. Vyna-Flect, washable, mildew-proof, flame-proof fabric; aluminum screen case; reversible brackets; spring roller; 8 sizes from 6x8 feet to 12x12 feet; priced from $93.50 to $185; tripod stand, $69.50.

W Wall Hanging Screen. Glass-beaded; fine-grain, brilliant, Hy-Flect fabric; metal case; spring roller; 11 sizes, 30x40 to 72x96 inches; priced from $11.95 to $67.50.

L Easel Type. Fine grain, beaded fabric; hanging-type; slat tips and black border; 3 sizes, 18x24, 22x30, and 30x40 inches; priced at $3.50, $4.50 and $7.50.

XL Picturemaster. Washable, beaded, mildew-proof Vyna-Flect; aluminum tripod; large audience tripod; screen leveler; three sizes, 63x84 to 72x96. Prices, from $89.75 to $102.75.

MFR., Radiant Mfg. Corp.

SPIRATONE

Tripod Model. Pyroxylin beaded fabric; roll-up metal cannister; 5 sizes available; 30x40 to 52x70, prices, $6.89 to $24.95.

MFR., Spiratone.

STEWART

Rear Projection. Plastic translucent screen custom-made for any light transmission to balance with projector light; white, neutral, or black tone; special roller type mounted in roller case with side arms; seamless in any size up to 24x38 feet; for use in Polaroid and stereoscopic projection. Prices on request.

Front Projection. Reflective type; white matte; silver finish for Polaroid and stereo projection; available in any size for frames. Prices on request.

MFR., Roy C. Stewart & Sons

S.V.E.

Glowhite. Matte-white, beaded, or silver; lightweight; adjustable in height; three sizes; 40x40 inches, $20; 50x50 inches, $27.50; 60x60 inches, $38.50.

MFR., Society for Visual Education, Inc.

TRANSMIRRA

Depth-Vue. Silvered, beaded, or flat white; box model; seven sizes, from 30x40 to 70x70 inches; priced from $35 to $95.

MFR., Transmirra Products Corp.

RANGEFINDERS

ARCO

Double image type; calibrated from 3 feet to infinity; has holder for neck chain; chrome finish; gives readings in both meters and feet at same time by means of separate meter scale on back of finder. Price, with case, $9.98, inc. tax.

DIST., General Photo. Supply Co.

BUSCH PROFESSIONAL

Double image type; calibrated from 2½ feet to infinity; coupled directly to camera bed on press-type cameras; protected cam; focusing spot light outlet; removable extension tube; protected by encircling bracket. Price on request.

MFR., Busch Camera Corp.

ERNI

Double image type; calibrated from 8 meters to infinity; chrome finish; pocket type with dial reading; attachable to camera shoe. Price, $5.95, inc. tax. Case, $1.

DIST., General Photographic Supply Co.

IDEAL

Double image type; calibrated from 2½ feet to infinity; polished black finish; pocket type with dial reading. Price, $2.95, including case. Three year service guarantee.

MFR., Federal Instrument Corp.

KALART

Double image types; calibrated from approximately 4 feet to infinity; attaches directly to side of camera; coupled to a specific lens of a given focal length; simplified adjustments for re-adjustment to supplementary lens; special outlet for attaching the Kalart Focuspot accessory. Ten models for 2¼x3¼ to 5x7 cameras. Price $29.95.

MFR., The Kalart Co., Inc.

MEDIS

Double image type; calibrated from 2.8 feet to infinity; chrome finish; fits camera shoe; accessory clip supplied if desired. Price, $5.

DIST., A. G. Photo Distributors.

MEYER CAM COUPLED

Double image type; calibrated from 2½ feet to infinity; coupled directly to camera bed on press-type cameras; compensating curve cam for each focal length lens; adapted for Focalite; protected by encircling bracket. Price, $28.50.

MEYER FIELD

Double image type; calibrated from 8 feet to infinity; precision measurement up to 100 feet; gray finish. Price, $32.50, inc. case.

DIST., Meyer-Opticraft, Inc.

OMAG

Double image type; calibrated from 28 inches to infinity; ball-bearing; black crinkle finish. Price, $9.98.

DIST., General Photographic Supply Co.

POCKET

Double image type; calibrated from 2½ feet to infinity; attachable to shoe on camera; black wrinkle finish; available in either feet or meters; height adapter available. Price, $9.90, including tax.

MFR., Meyer-Opticraft, Inc.

POLLUX

Super-imposed, double image type; calibrated from 2 feet to infinity; available also calibrated from .6 meter to infinity; adjusting screw permits rangefinder to be re-set. Price, $4.75. Case, $.75.

DIST., Interstate Photo Supply Corp.

PRAEZISA

Double image type; calibrated from 2½ feet to infinity; chrome and leather finish; external adjustment screw; fits camera shoe. Price on request.

DIST., Spiratone; Saul Bower.

WALZ

Double image type; calibrated from 2½ feet to infinity; also available in calibrated from ¾ meter to infinity, universal attachable shoe to fit Kodak and other cameras. Price, $5.95.

DIST., General Photographic Supply Co.

WATAMETER I

Double image type, calibrated from 1½ ft. to infinity; distance reads on dial indicator; fits camera shoe; chrome and leather finish. Price, $5.95; leather case, $.75.

WATAMETER II

Same as above, but with provision for reading distance directly through eyepiece. Price, $7.95; case, $.75.

SUPER WATAMETER

Same as above, but with additional scale for readings from 12 to 25 inches. Price, $9.95; case, $.75.

DIST., Alfa Photo Corp.

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ADHESIVES
Ace Photo Laboratories
Arel, Inc.
Arabol Manufacturing Co.
Milton Bradley Co.
Burke & James, Inc.
Commercial Paste Co.
Craftint Manufacturing Co.
Eastman Kodak Co.
Gross Photo Supply Co.
Higgins Ink Co.
Inventions, Inc.
National Chemical Co.
Paisley Products, Inc.
Porter Mfg. Co.
Rosco Laboratories
Sanford Ink Co.
Sprague-Hathaway, Inc.
Union Rubber & Asbestos Co.

AGITATORS, TANK
Adler's Metal Works
Oscar Fisher Co., Inc.
Franklin M. Morgan, Inc.
National Chemical Co.
Radiant Specialty Corp.
Testrite Instrument Co., Inc.

ALBUMS
Aabalton's Photofit Co.
American Camera & Photo Supply
Arel, Inc.
The Barco Chemical Prod. Co.
Blossom Mfg. Co., Inc.
O. S. Braunstein
John Byrnes Co.
The Camille Co.
Chilcote Co.
Cook's of Camden
Craftmount Co.
Eastman Kodak Co.
Fredart Mfg. Corp.
Gen. Products Co. (Reading, Mass.)
General Products Co. (Chicago)
Gross Photo Supply Co.
H & S Printing Co.
Arthur Hertzberg & Craftsmen
Holson Binders, Inc.
International Sales Co.
Interstate Picture Frame Co.
Kirk Plastic Co.
Kreuter Leather Goods Co.
E. E. Miles Co.
Ply-Line Co.
Polly Products, Inc.
Photo Specialty Co.
Polaroid Corp.
Premier Mfg. Co.
Joseph Robin Co.
Royal Albums
Sprague-Hathaway, Inc.
Stationer Specialty Corp.
York Photo Mount, Inc.

APRONS, DARKROOM
American Camera & Photo Supply
Baco Accessories Co.
Blossom Manufacturing Co.
Eastman Kodak Co.
General Photographic Supply Co.
Franklin M. Morgan, Inc.
George Murphy, Inc.
Pictorial Frames
The Saunders Co.

AUTOMATIC DIAPHRAGM CONTROL
Graflex, Inc.
H. C. E. Co., Inc.
Hall-Barkan Instruments, Inc.

BACKS, CAMERA
Dividing
Ansco
Burke & James, Inc.
L. F. Deardorff & Sons
Graflex, Inc.
Multiple
Burke & James, Inc.
Eastman Kodak Co.
Reducing
Ansco
Burke & James, Inc.
L. F. Deardorff & Sons
Eastman Kodak Co.
Photronics, Ltd.
Roll Film Adaptors
Brumberger Co.
Mar-Bar, Inc.
E. Suydam & Co.
Spring
Eastman Kodak Co.
Fidelity Mfg. Co.
Wolk Mfg. Co.

BEADS (Glass, for Screens)
Amer. Camera & Photo Supply Co.
Fred Frankel & Sons
Vocalite Screen Corp.

BELLOWS
A. G. Photo Dist.
Adam Archinal Corp.
Bellows Supply Co.
Camera Specialty Co., Inc.
Exakta Camera Co.
Pentacon Corp.
Praktica Co., Inc.
Rodgers Bellows Mfg. Co.
Techni-Service
United Camera Co.
I. W. Willin & Co.

CALCULATORS & COMPUTERS
Arel, Inc.
Eastman Kodak Co.
Florman & Babb
Haber & Fink
Kerman Instr. Co.
George Murphy, Inc.
Precision Camera Equip.
Russ Ramsey
Slyd-Rul Co.

CAMERA REPAIR
See REPAIRS, CAMERAS, ETC.

CASES, CAMERA
American Cam. & Photo Supply
Ansco
Arel Incorporated
Baco Accessories Co.
Barnett & Jaffe
Bell & Howell Co.
Burke & James, Inc.
Diamond Case Div., Louis Lefkowitz & Bro., Inc.
Durable Fibre Sample Case Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Fiberbilt Case Co.
General Photographic Supply Co.
Graflex, Inc.
Hinson Manufacturing Co.
The Kalart Co.
Keys Stereo Products
Kling Photo Supply Co.
E. Leitz, Inc.
Paillard Products, Inc.
Perfection Sample Case Co.
J. B. Perrin & Co.
Polaroid Corp.
Ruko Company
Service Manufacturing Co.
Superb Photo Accessories Co.
Universal Camera Corp.
Videon Camera Sales, Inc.

CASES—SALON MAILING
Compco Corp.
Durable Fibre Sample Case Co.
Fiberbilt Case Co.
Fibre Case & Novelty Co.
Perfection Sample Case Co.

CELLULOSE TAPE
Industrial Tape Corp.

CHANGING BAGS
Burke & James, Inc.
Eagle Photo Supply Co.
George Murphy, Inc.
No Dark Products Co.
Photo Import & Dist. Corp.
Service Photo Suppliers, Inc.

CHEMICALS, PHOTO
Ace Photo Laboratories
Ansco
Arel, Inc.
Atkinson Laboratories
Braun Laboratories
Brown-Forman Ind.
Continental Photographic Labs.
Eagle Photo Supply Co.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
General Photo Products Co., Inc.
General Photographic Supply Co.
G. Gennert Co. of California
Linbro Chemicals
Mallinckrodt Chemical Works
Meirix Chemical Co.
George Murphy, Inc.
National Chemical Co.
Norman-Willets Co.
Sarnol, Inc.
Urell, Inc.

CLAMPS
Saul Bower, Inc.
Futura Camera Co.
Strobo Research

COLD LIGHT ENLARGING HEADS
Aristo Grid Lamp Products, Inc.
DeJur-Amsco Corp.
Federal Mfg. & Eng. Corp.
Simmon Bros.

COLORING MATERIAL
Alden Manufacturing Laboratories
Craftint Manufacturing Co.
Delta Brush Co.
Dyacol Products Laboratory
Eastman Kodak Co.
Johnston's Snow White Products
The Kalart Co., Inc.
John G. Marshall, Inc.
Mimosa-American Corp.
George Murphy, Inc.
F. Weber Co.
Webster Brothers Laboratories

COLOR TEMPERATURE METERS
Harrison & Harrison
Karl Heitz, Inc.
Mitropa Corp.
Photo Research Corp.
Stein Photo Distributors

COLOR PRINTING & PROCESSING ACCESSORIES
Adler's Metal Works
Ansco
Artisan Guild
Bar-Ray Products, Inc.
Continental Photographic Labs.
Craftint Manufacturing Co.
Curtis Laboratories, Inc.
Dyacol Products Lab.
Eagle Photo Supply Co.
Eastman Kodak Co.
Oscar Fisher Co., Inc.
McGraw Colorgraph Co.
Franklin M. Morgan, Inc.
Morse Instrument Co.
George Murphy, Inc.
Nobema Products Corp.
Rosco Laboratories
Sarnol, Inc.
Testrite Instrument Co.
United States Stoneware Co.

CONDENSING LENSES
American Photo Laboratories
Semon Bache & Co.
Bausch & Lomb Optical Co.
Bray Optical Co.
Buhl Optical Co.
Burke & James, Inc.
Edmund Scientific Corp.
Ednalite Optical
Optex Corporation

COPYING EQUIPMENT & ACCESSORIES
Baco Accessories Co.
Bolsey Co.p. of America
Brownie's Specialty Shop
Burke & James, Inc.
C. B. S. Laboratories
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Chicago Camera Co.
Copidaptor Co.
L. F. Deardorff & Sons
De Groff Laboratories, Inc.
DeJur-Amsco Corp.
Eastman Kodak Co.
Emde Products
Garden & Williams
General Photo Products Co.
General Photographic Supply Co.
Graflex, Inc.
Hall-Barkan Instruments, Inc.
E. Leitz, Inc.
Karl Heitz, Inc.
Konica Camera Co.
Lightning-Lite Co.
Photo Import & Dist. Corp.
Polaroid Corp.
Shull-Meyer Co.
Spiratone, Inc.
Testrite Instrument Co., Inc.
U. S. Stoneware Co.

DARKROOMS—PORTABLE
Bar-Ray Products, Inc.

DARKROOM KITS—Color
Ansco
Arel, Inc.
Continental Photographic Labs.
Curtis Laboratories, Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Morse Instrument Co.
George Murphy, Inc.
Randall Enterprises
Sarnol, Inc.

DARKROOM SINKS
Adler's Metal Works
Artisan Guild
Baco Accessories Co.
Burke & James, Inc.
Calumet Mfg. Co.
Oscar Fisher Co.,Inc.
Franklin M. Morgan, Inc.
U. S. Stoneware Co.

DARKROOM KITS—Black & White
Ansco
Arel, Inc.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
Howard Products Co.
Mimosa-American Corp.
Testrite Inst. Co., Inc.

DARKROOM LABELS
Eureka Specialty Printing Co.

DENSITOMETERS
Eastman Kodak Co.
General Radio Co.
Photo Research Corp.
W. M. Welch Mfg. Co.
Weston Electrical Instrument Corp.

DESENSITIZERS
Ansco
Eastman Kodak Co.
George Murphy, Inc.

DODGING DEVICES
Polly Products, Inc.

DRYING AGENTS
O. S. Braunstein
Meirix Chemical Co.
George Murphy, Inc.

DYES, PHOTOGRAPHIC
Alden Manufacturing Laboratories
Ansco
Baco Accessories Co.
Curtis Laboratories, Inc.
Dyacol Products, Laboratory
Eastman Kodak Co.
Franklin M. Morgan, Inc.
Norman-Willets Co.
Webster Brothers Laboratories

ELECTRONIC FLASH
Studio Units, Extensions & Accessories
American Cinefoto
American Speedlight Corp.
Cellux Electronic Corp.
D. A. Davenport Mfg. Co.
Dormitzer Electric & Mfg. Co.
Eastman Kodak Co.
Epco Products, Inc.
Heiland Research Corp.
Lightning Lite Co.
Photographic Products, Inc.
J. G. Saltzman, Inc.
Strobo Research
Tubes
Amglo Corporation
General Electric Co.
Kemlite Labs.

ENLARGER COVERS
American Camera & Photo Supply
Blossom Manufacturing Co.
O. S. Braunstein
General Photographic Supply Co.
George Murphy, Inc.
The Saunders Co.

ENLARGER HEADS
Craig Movie Supply Co.
DeJur Amsco Corp.
Elwood Pattern Works, Inc.

ENLARGING AIDS
Adams Retouching Machine Co., Inc.
Burke & James, Inc.
Dyacol Products Lab.
Eastman Kodak Co.
Raymond Georg
Nichols Photo Service
Simmon Bros., Inc.
Stern & Co.

ENLARGING EASEL HOLDERS
Eastman Kodak Co.

Manufacturers' and distributors' addresses begin on page 194

Elwood Pattern Works, Inc.
Shull-Meyer Co.

ENVELOPES—Glassine & Cellophane

The American Products Co.
Ansco
O. S. Braunstein
Eastman Kodak Co.
Andrew E. Lutz Co.
George Murphy, Inc.
The Nega-File Co.

EXPOSURE RECORDS

Atkinson Laboratories
Harrison & Harrison

EXTENSION TUBES

A. G. Photo Dist.
Baco Accessories
Burke & James, Inc.
CBS Laboratories
The Camera Mart
Century Precision Specialties Co.
Eastman Kodak Co.
Enteco Industries, Inc.
Hall-Barkan Instrument Co., Inc.
Heiland Research Corp.
Karl Heitz, Inc.
E. Leitz, Inc.
Photographic Importing & Distributing Corp.
Shull-Meyer Co.
Sperling Camera Accessories Import Co.
Spiratone, Inc.
Techni-Service

FABRIC—BACKING

Seal, Inc.
Western Sales Co.

FERROTYPE

Solution
Alden Manufacturing Co.
Ansco
Burke & James, Inc.
Eastman Kodak Co.
Edwal Laboratories
Ferolene Sales Co.
General Photographic Supply Co.
Merix Chemical Co.
National Chemical Co.
Tins & Plates
American Camera & Photo Supply
Apollo Metal Works
Burke & James, Inc.
Duophoto Corp.
Eagle Photo Supply Co.
Eastman Kodak Co.
George Murphy, Inc.
National Sheet Metal Co.

FIELD LENSES

Eastman Kodak Co.
The Hartley Co.
Pacific Transducer Corp.
Spiratone, Inc.
E. Suydam & Co.

FILM ACCESSORIES

Adapters:
CM Backs to American Holders
Fidelity Mfg. Co.
No. 120 & 620 to Bantam
Burke & James, Inc.
Eastman Kodak Co.
Cleaning Devices
Eastman Kodak Co.
The Kalart Co., Inc.
Neumade Products Corp.
Cleaning Preparations
Dyacol Products Lab.
Eastman Kodak Co.
Edwal Laboratories
Kalart
Merix Chemical Co.
National Chemical Co.
Photographic Industries, Inc.
Rosco Laboratories
Clips & Hangers
A-G Photo Distributors
Ansco
Arel, Inc.
Burke & James, Inc.
Eastman Kodak Co.
Electra Research Corp.
The FR Corporation
Oscar Fisher Co., Inc.
Testrite Instrument Co.
Urell, Inc.
Dryers
O. S. Braunstein
Oscar Fisher Co., Inc.
Martin Products
Micro Record Corp.
Morse Instrument Company
Drying Solutions
Filmpack Adapters
A-G Photo Distributors
Busch Camera Corp.
Eastman Kodak Co.
Graflex, Inc.
E. Suydam & Co.
Film Masks
Porter Mfg. Co.
R. & M. Prod. Develop. Co.
Holders
Alkon Products Corp.
Ansco
Baco Accessories Co.
Burke & James, Inc.
Busch Camera Corp.
Eastman Kodak Co.
Fidelity Manufacturing Co.
Graflex, Inc.
Grover Photo Products
Lisco Products Co.
E. Suydam & Co.
Loaders (35mm)
Burke & James, Inc.
Service Photo Suppliers, Inc.
Magazines
Graflex, Inc.
Markers (Film Holder)
Strobo Research
Plate Back to Roll Film
Adam Archinal Corp.
Graflex, Inc.
E. Suydam & Co.
Techni-Service
Protective Solution
O. S. Braunstein
Cinelac Co.
Curio Photo Co.
Eastman Kodak Co.
Kin-O-Lux, Inc.
Neumade Products Corp.
Pinnacle Productions
Rosco Laboratories
Roll Film Adapter
A-G Photo Distributors
Burke & James, Inc.
Graflex, Inc.
Mar-Bar, Inc.
E. Suydam & Co.
Sheet Film Sheaths
Burleigh Brooks Co.
E. Suydam & Co.
Techni-Service
Trimmers & Templates
Eastman Kodak Co.
E. Leitz, Inc.
Shull-Meyer Co.
Washers
Kingdon Photo Accessories Co., Inc.

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Ansco
Bolsey Corp. of America
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Harrison & Harrison
Photographic Importing & Distributing Corp.
Spiratone
Tiffen Manufacturing Corp.

FILTER MOUNTS

Burke & James, Inc.
Burleigh Brooks Co.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries, Inc.
H. C. E. Co., Inc.
Harrison & Harrison

FILTERS, VIEWING

Burleigh Brooks Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Golden 'B' Mfg. Co.
Harrison & Harrison
Moviette, Inc.
Photographic Arts Manufacturing Co.
Photo Research Corp.

FIXING PREPARATIONS

Ace Photo Laboratories
Ansco
Atkinson Laboratories
E. I. du Pont de Nemours & Co., Inc.
Eastman Kodak Co.
Edwal Laboratories
The FR Corporation
Mallinckrodt Chemical Works
Mon-Blanc Chemical Laboratories
Urell, Inc.

FLASH

Batteries
Bright Star Battery Co.
Burgess Battery Co.
National Carbon Co., a Div. of Union Carbide & Carbon Corp.
Ray-O-Vac Co.
Battery Tester
Bright Star Battery Co.
Graham Scientific Instrument Co.
Kinglife Prod. Corp.
Pioneer Patents & Products Co.
Testrite Instrument Co.
Bayonet Adapters & Sockets
Arel, Inc.
Biber Foto Corp.
Harwood Mfg. Co.
Frank W. Morse Co.
Service Photo Suppliers, Inc.
Jas. H. Smith & Sons Corp.
Testrite Instrument Co.
B-C Cartridges
Eastman Kodak Co.
Shureflash Laboratory, Inc.
Sprague Products Co.
Bulb Tester
Bright Star Battery Co.
Burke & James, Inc.
General Photographic Supply Co.
Harwood Mfg. Co.
Pioneer Patents & Products Co.

Flash Bulb Dyes
Dayton Rogers Manufacturing Co.
Dee Bee Laboratory
Jen Products, Inc.
Rosco Laboratories
Scienta Products Co.

Flash Extensions & Accessories
Bolsey Corp. of America
Burke & James, Inc.
Eastman Kodak Co.
Ertler Photo Equipment
Graflex, Inc.
Heiland Research Corp.
Jen Products, Inc.
The Kalart Co.
Kamra Corp.
Kinglife Prod. Corp.
E. Leitz, Inc.
Mendelsohn Speedgun Co., Inc.
Nordic Mfg. Co.
Powell Products Inc.
Praco Photo Products Co., Inc.
Service Photo Suppliers, Inc.
Spiratone Photo Supplies

Flash Shields & Covers
Apel Photo Products
Blossom Manufacturing Co
Brooks Manufacturing Co.
Eastman Kodak Co.
General Photographic Supply Co.
Graflex, Inc.
Glo-Brite Products, Inc.
Polaroid Corp.
Jen Products, Inc.
Mathkin Products Co.
Spear Products Co.

Pistols & Powder
Kilgore Manufacturing Co.

Slave Flash Units
Associated Designers
Sterling Howard
Strobo Research

Synchronizer Focusing Spotlight
Jen Products, Inc.
Kinglife Prod. Corp.

Synchronizer Tester
Acra Instruments
Aerotronic Associates
Biber Foto Corp.
Cyclops Products
Flashback Sales
General Photographic Supply Co.
Heiland Research Corp.
The Kalart Co., Inc.
Novelty Scientific
Photo Research Corp.
Service Photo Suppliers, Inc.
Techni-Service
Westinghouse Electric Corp.
Wilcox Photo Products, Inc.

FOCUSING AIDS

A-G Photo Distributors
Baco Accessories Co.
Bausch & Lomb Optical Co.
Buhl Optical Co.
Burke & James, Inc.
Burleigh Brooks Co.
C. B. S. Laboratories
Century Precision Specialties Co.
Chromat-O-Scope
Dayton Rogers Manufacturing Co.
Delta Photo Supply Co.
Eastman Kodak Co.
Fedco Products
Foto-Rule Co.
Geiss-America
General Photographic Supply Co.
Hollywood Cine Products
The Kalart Co.
E. Leitz, Inc.
Mimosa-American Corp.
George Murphy Co.
V. C. Nitsche
Opti-Tek
Photolix, Inc.
Sarnol, Inc.
The Saunders Co.
Shull-Meyer Co.
Starr Corp.

FRAMES—ADJUSTABLE

Bawden Brothers, Inc.
Braquette, Inc.
A. J. Ganz Co.
General Products of Chgo.
Joseph Robin
Sprague-Hathaway, Inc.
York Photomount, Inc.

GADGET BAGS

American Camera & Photo Supply Co.
Ansco
Arel, Inc.
Diamond Case Div., Louis Lefkowitz & Bros.
Hinson Manufacturing Co.
J. B. Perrin & Co.
Ruko Company
Service Manufacturing Co.
Service Photo Suppliers, Inc.

GLASS

Ground Glass
Semon Bache & Co.
Edmund Scientific Corp.
Eastman Kodak Co.
Norman-Willets Co.
Heat-Absorbing
American Photo Laboratories
Ansco
Semon Bache & Co.
Bausch & Lomb Optical Co.
Burke & James, Inc.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Norman-Willets Co.
Opal
Norman-Willets Co.
Polarizing
Craig Movie Supply Co.
Optex Corp.
Polaroid Corp.
Polalite Corp.
Three Dimension Sales Co.
Slides
Semon Bache & Co.
Brumberger Co., Inc.
Burke & James, Inc.
Compco Corp.
Eastman Kodak Co.
Erie Scientific Corp.
GoldE Manufacturing Co.
E. Leitz, Inc.
Rosco Labs.
Sprague-Hathaway, Inc.

GLOVES—DARKROOM

Tenplus Co.

GRADUATES

Eastman Kodak Co.
Testrite Instrument Co.

GRAY SCALES

Eastman Kodak Co.

GREETING CARD SETS

Ansco
Chemipure Labs.
Eastman Kodak Co.
La France Productions
Mimosa-American Corp.
Photo-Mart

HARDENERS, PREPARED

Ansco
Atkinson Laboratories
A. O. Braunstein
Duophoto Corp.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
Mallinckrodt Chemical Works
Merix Chemical Co.
National Chemical Co.
Urell, Inc.

HUMIDITY CONTROL

Abbeon Supply Co.

HYPO

Bath Test
A. O. Braunstein
Eastman Kodak Co.
Edwal Laboratories
Eliminator
A. O. Braunstein
Neutralizer
Brown-Forman Industries
Test for Wash Water
E. I. du Pont de Nemours & Co., Inc.

IDENTIFICATION—(Equipment)

Cameras
Graflex, Inc.
Polaroid Corp.
Decalcomanias
Baco Accessories Co.
I-D-Cal Co.
Embossing Seals
Avery Adhesive Label Corp.
Interstate Picture Frame Co.
Stamping Machines
Aabalton's Photofit Co.
Supplies
Graflex, Inc.

INKS—(For Writing on Glass & Negatives)

Alden Manufacturing Co.
Craftint Mfg. Co.
Eastman Kodak Co.
Graflex, Inc.
Higgins Ink Co., Inc.
Johnston's Snow White Products
Stewart Research Labs.
F. Weber Co.

Manufacturers' and distributors' addresses begin on page 194

INTENSIFIER
Ansco
Burke & James, Inc.
Curio Photo
Eastman Kodak Co.
George Murphy, Inc.
Jas. H. Smith & Sons Corp.

LAMP BULBS (Other Than Picture Taking)
Burke & James, Inc.
Eastman Kodak Co.
Industrial Devices, Inc.
North American Electric Lamp Co.
Radiant Lamp Corp.
Solar Electric Corp.
Sylvania Electric Co.
Westinghouse Elec & Mfg. Co.

LENSES, PHOTOGRAPHIC
Alco Photo Supply Corp.
Bausch & Lomb Optical Co.
Semon Bache & Co.
Bell & Howell Co.
Buhl Optical Co.
Burke & James, Inc.
Camera Specialty Co., Inc.
Century Precision Specialties Co.
DeJur Amsco Corp.
Eastman Kodak Co.
Edmund Scientific Corp.
Ednalite Optical Co.
Elgeet Optical Co.
Gallinger Bros., Inc.
C. P. Goerz American Optical Co.
Graflex Inc.
Karl Heitz, Inc.
Herron Optical Co.
Ilex Optical Co.
Kling Photo Supply Corp.
E. Leitz, Inc.
Main Electric Co., Inc.
Meyer-Opticraft Co.
Optex Corp.
PhotoLix, Inc.
Photo Import & Dist. Corp.
Projection Optics Co., Inc.
Semon Bache & Co.
Society for Visual Education, Inc.
Starr Corp.
Viewlex, Inc.
Wollensak Optical Co.

LENS ACCESSORIES
Adapters
Alfa Photo Corp.
Century Precision Specialties Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Shull-Meyer Co.
Tenplus Co.
Tiffen Mfg. Corp.

Brushes
American Camera & Photo Supply
Arel, Inc.
Baco Accessories Co.
Burke & James, Inc.
Delta Brush Co.
Eastman Kodak Co.
Nuclear Products Co.
Rosco Laboratories
Starr Corp.

Calibrating, T-Stops
National Cine Equipment, Inc.
Photo Research Corp.

Cleaning Solution
Arel, Inc.
Bell & Howell Co.
A. O. Braunstein
Eastman Kodak Co.
The Kalart Co., Inc.
Mallinckrodt Chemical Works
Mitchell Camera Corp.
George Murphy, Inc.
Rosco Laboratories
Sturr Industries, Inc.
Wollensak Optical Co.

Coating
Buhl Optical Co.
Burke & James, Inc.
Burleigh Brooks Co.
Ray Campbell & Co.
Century Precision Specialties Co.
Certified Scientific Co.
Chemoptics, Inc.
Ednalite Optical Co.
Mills Photographic Engineering Lab.
Optical Coating Laboratory
Pacific Universal Products Corp.
Starr Corp.
Sturr Optical Co., Inc.
Techni-Service Co.

Diaphragm Controls
Hall-Barkan Instruments, Inc.

Flanges & Boards
Adam Archinal Corp.
Baco Accessories Co.
Bausch & Lomb Optical Co.
Brownie Specialty Shop
Burke & James, Inc.
Burleigh Brooks Co.
Eastman Kodak Co.
Elgeet Optical Co.
Enteco Industries
Heiland Research Co.
Kinglife Prod. Corp.
Shull-Meyer Co.
Techni-Service
The Tenplus Co.

Lens Caps
Baco Accessories Co.
Bausch & Lomb Optical Co.
Bell & Howell Co.
Blossom Mfg. Co., Inc.
Burke & James, Inc.
Eastman Kodak Co.
Elgeet Optical Co.
General Photographic Supply
E. Leitz, Inc.
Photo Import & Dist. Corp.
Starr Corp.

Lens Mountings
Camera Equipment Co.
Century Precision Specialties Co.
Hall-Barkan Instruments, Inc.

Shades
American Camera & Photo Supply
Baco Accessories Co.
Bell & Howell
Burke & James, Inc.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries
Garden & Williams
General Photographic Supply
C. P. Goerz American Optical Co.
Harrison & Harrison
Karl Heitz, Inc.
E. Leitz, Inc.
George Murphy, Inc.
Photographic Importing & Distributing Corp.
Polly Products Co.
Ponder & Best
Techni-Service
Tiffen Mfg. Corp.
Starr Corp.
Wilco Specialties

Shades, Bellow Type
Graflex, Inc.

Shade & Filter Holder Combinations
Bardwell & McAlister, Inc.
Bell & Howell
Bolsey Corp. of America
Burke & James, Inc.
Daylight Sales Corp.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries
Garden & Williams
H. C. E., Inc.
Harrison & Harrison
Karl Heitz, Inc.
E. Leitz, Inc.
Polly Products Co.
Ponder & Best
Techni-Service
Tiffen Mfg. Corp.

Tester
Century Precision Specialties Co.
Optical Standards
Pacific Transducer Corp.
Photo-Mart
Photo Research Corp.
Shull-Meyer Co.

Tissue & Cloth
Aldine Paper Co.
American Camera & Photo Supply Co.
Bell & Howell Co.
Eastman Kodak Co.
Rosco Laboratories
A. Rosmarin
Sarnol, Inc.
Starr Corp.

LIGHTING EQUIPMENT & ACCESSORIES
Background Holder
American Photographic Instrument Co., Inc.

Background Paper
Savage-Universal Corp.

Diffusion Screens
Acme-Lite Manufacturing Co.
Bardwell & McAlister, Inc.
Craig Movie Supply Co.
Eastman Kodak Co.
Garden & Williams
Glo-Brite Products, Inc.
GoldE Manufacturing Co.
Martin Products Co.
Mitchell Camera Corp.
Nichols Photo Service
Optex Corporation
Photo-Mart
Jas. H. Smith & Sons Corp.

Floodlights
Acme-Lite Manufacturing Co.
American Camera & Photo Supply Co.
Bardwell & McAlister, Inc.
Compco Corporation
Eastman Kodak Co.
General Products Co.
Grover Photo Products
Miller-Trojan Co.
Mole-Richardson Co.
Morse Instrument Co.
Otto K. Olesen Co.
J. G. Saltzman, Inc.
Shull-Meyer Co.
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Sun Ray Photo Corp.
Testrite Instrument Co.

Floodlights for Camera Mounting Movie and Still
Acme-Lite Manufacturing Co.
American Products Co.
Arrow Metal Products
Arrowhead, Inc.
Camera Optics Mfg. Co.
Compco Corporation
Harwood Mfg. Co.
Mayfair Mfg. Co.
Photographic Products, Inc.
Powell Products, Inc.
D. Paul Shull Co.
James H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Techni-Service
Testrite Instrument Co.

Floodlight Filters (colored)
Bardwell & McAlister, Inc.
Eastman Kodak Co.
Rosco Labs.

Flood Reflectors
Acme-Lite Manufacturing Co.
Burke & James, Inc.
Compco Corporation
Eastman Kodak Co.
Grossman Electric Specialties Co.
Grover Photo Products
Harwood Mfg. Co.
Jen Products Co.
Mole-Richardson Co.
Jas. H. Smith & Sons Corp.
Spiratone
Testrite Instrument Co.

Flood Reflectors & Clamps
Acme-Lite Mfg. Co.
Arrowhead, Inc.
Compco Corporation
Eastman Kodak Co.
Harwood Mfg. Co.
Heiland Research Corp.
Kenart Devices, Inc.
Shull-Meyer Co.
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Strobo Research Corp.
Testrite Instrument Corp.
Whitmore Products

Footswitches
Burke & James, Inc.
Camera Specialty Co.
Dimco-Gray Co.
Eastman Kodak Co.
General Control Co.
Industrial Timer Corp.
Mimosa American Corp.
George Murphy, Inc.
Pioneer Patents & Products Co.
Spiratone

Hand Flashguns
Service Photo Suppliers, Inc.
Jas. H. Smith & Sons Corp.

Hi-Low Switches
Acme-Lite Mfg. Co.
Industrial Timer
Lightning-Lite Co.
Mardit Manufacturing Co.

Light Boosters
Grover Photo Products
Heiland Research Corp.
Lightning-Lite Co.

Light Stands
Acme-Lite Manufacturing Co.
Amer. Photographic Instrument Co.
Baco Accessories Co.
Burke & James, Inc.
Compco Corp.
Eastman Kodak Co.
GoldE Mfg. Co.
Harwood Mfg. Co.
Mole-Richardson Co.
Otto K. Olesen Co.
Parker Co.
Petrick Bros., Inc.
Pho-Tel Products
Read Photo Products
Robar Research, Inc.
J. G. Saltzman
Spiratone
Strobo Research
Sun Ray Photo Corp.
Jas. H. Smith & Sons Corp.
Testrite Instrument Co.

Light Tilter
American Photographic Instrument Co., Inc.

Portable Studio Units
Acme-Lite Manufacturing Co.
Grover Photo Products
Mole-Richardson Co.
Morse Instrument Co.
The Parker Co.
Jas. H. Smith & Sons Corp.
Sun Ray Photo Co., Inc.

Reflectors for Midget Flashbulbs
Burke & James, Inc.
Ertler Photo Equipment
Heiland Research Corp.
Kalart Company, Inc.
Kinglife Prod. Corp.
Jas. H. Smith & Sons Corp.

Voltage Control Units
Carter Motor Co.
General Radio Co.
Industrial Devices
Industrial Timer Corp.
Natco, Inc.
Raytheon Manufacturing Co.

Miscellaneous Electrical Equipment
Aristo Grid Lamp Products
Carter Motor Co.
Dee Bee Labs.
Eastman Kodak Co.
Ertler Photo Equipment
Graflex, Inc.
Grossman Electric Specialty Co.
Grover Photo Products
Industrial Electrical Works
Jen Products, Inc.
Kinglife Prod. Corp.
Lightning-Lite Co.
Mole-Richardson Co.
Otto K. Olesen Co.
Petrick Brothers, Inc.
Powell Products Inc.
Raytheon Manufacturing Co.
Read Photo Manufacturers
J. G. Saltzman
Shureflash Laboratory, Inc.
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Sprague Products Co.
W. R. Terrill Co.
Viewlex Inc.

MAILERS
For Films
Brooklyn Mailing Device Co.
Durable Fiber Sample Case Co.
Fiberbilt Case Co.
Goldberg Brothers
Interstate Picture Frame Co.
Neumade Products Corp.
Perfection Sample Case Co.

For Prints
American Camera & Photo Supply Co.
Burke & James, Inc.
Compco Corp.
Eastman Kodak Co.
International Sales Co.
Interstate Picture Frame Co.
Andrew E. Lutz
Miles Kedex Co.
Savage-Universal Corp.
Jas. H. Smith & Sons Corp.

MASKING COMPOUNDS
Dyacol Products Lab.
Webster Bros. Lab.

MASKS, PRINTING
American Photo Laboratories
Arel, Inc.
Burke & James, Inc.
Di Carlo Crystal Etcher Co.
Eastman Kodak Co.
Felix Distributing Co.
LaFrance Productions
Mimosa American Corp.
The Neder Corp.

Color Separation
Condit Mfg. Co.

Dating
La France Productions

Fancy Border
Photo-Mart

Vignetting
Krug Haloette Co.

MATT-CUTTERS
Germain Photo Specialties

MATTE BOX, STILLS
Workrite Products Co.

MIRRORS FOR COLOR & REFLEX CAMERAS
Advertising Displays, Inc.
Semon Bache & Co.
Burke & James, Inc.
Edmund Scientific Corp.
Evaporated Metal Films Co.
Herron Optical Co.
Optex, Inc.
Pacific Universal Products Corp.
Techni-Service

MITTENS, DARKROOM
Neumade Products Corp.
Surety Rubber Co.

MOUNTING SUPPLIES
Boards & Folders
Aabalton's Photofit Co.

Manufacturers' and distributors' addresses begin on page 194

Braquette, Inc.
John Byrnes Co.
The Camille Co.
M. W. Carr & Co.
Cook's of Camden
The Craftmount Co.
Eastman Kodak Co.
E-P Kardkraft
Erie Scientific Corp.
Gross Photo Supply Co.
Arthur Hertzberg & Craftsmen
International Sales Co.
Interstate Picture Frame Co.
Walter A. McCabe Co.
E. E. Miles Co.
Miles Kedex Co.
Mimosa American Corp.
George Murphy, Inc.
National Card, Mat & Board Co.
Porter Mfg. Co.
Joseph Robin Co.
Savage-Universal Corp.
Sprague-Hathaway, Inc.
York Photo Mount, Inc.

Cement
Craig Film Cement
Union Rubber & Asbestos Co.

Cloth
Seal, Inc.

Corners
Burke & James, Inc.
Engel Art Corners Manufacturing Co.

Frames
Arel, Inc.
Pictorial Frames

Hinges
Arel, Inc.
Mimosa American Corp.
Premier Manufacturing Co.

Irons
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Seal, Inc.

Papers
Holson Binders, Inc.

Presses, Dry-Mounting
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Seal, Inc.
Sterling-Howard

Tissue
Eastman Kodak Co.
Seal, Inc.
Western Sales Co.

MOVIE ACCESSORIES

Accessory Film Magazines
Bell & Howell Co.
Burke & James, Inc.
Century Precision Specialties Co.
Grover Photo Products
Arthur H. Hart
Par Products Corp.

Barn Doors—Snoots—Focus Spots
Bardwell & McAlister, Inc.
GoldE Manufacturing Co.

Batteries for Camera Drive
Bright Star Battery Co.

Battery and Motor Camera Drives
Custom Built Camera Co.
Arthur H. Hart
Par Products Corp.
Reger Mfg. Corp.

Editing Cases
Cosmolux Co.

Effect Filters
Eastman Kodak Co.
Ednalite Optical Co.
Tru-Lite Research Laboratories
Wollensak Optical Co.

Fade Devices
Bolsey Corporation of America
The Kalart Co., Inc.
The Moviecraft Co.

Film Cement and Applicators
Ansco
Bell & Howell Co.
Calhoun Co.
Eastman Kodak Co.
Inventions, Inc.
The Kalart Co., Inc.
Kin-O-Lux, Inc.
Mansfield Industries, Inc.
National Chemical Co.
Rosco Laboratories

Focusing Attachments
Century Precision Specialties Co.
Grover Photo Products
Par Products Corp.

Lens Testers
Century Precision Specialties Co.

Lens Turrets
Grover Photo Products
Arthur H. Hart
Par Products Corp.
Jas. H. Smith & Sons Corp.

Printers
Burke & James, Inc.
Macvan Manufacturing Co.
S.O.S. Cinema Supply Corp.

Processing Equipment
Burke & James, Inc.
Neumade Products Corp.
S.O.S. Cinema Supply Corp.

Reels, Cans, Cases, Etc.
Advance Cine Equipment Co.
Alden Manufacturing Co.
Apex Case, Inc.
Arkay Laboratories, Inc.
Barnett & Jaffe
Bell & Howell Co.
Brumberger Co., Inc.
Burroughs Inc.
Calhoun Co.
Colrod Manufacturing Co.
Compco Corp.
DeJur-Amsco Corp.
Durable Fibre Sample Case Co.
Eastman Kodak Co.
Fiberbilt Case Co.
Futura Camera Corp.
G. M. Laboratories, Inc.
Goldberg Brothers
Kin-O-Lux, Inc.
Howard B. Marks Co.
Nega-File Co.
Neumade Products Corp.
Perfection Sample Case Co.
Sawyer's, Inc.
Sun Ray Photo Co., Inc.

Rewinds
Bell & Howell Co.
Camera Optics Mfg. Co.
Eastman Kodak Co.
The Kalart Co., Inc.
Kin-O-Lux, Inc.
Neumade Products Corp.
Wenzel Distributors

Splicers
Ampro Corp.
Bell & Howell Co.
Bolsey Corp. of America
Eastman Kodak Co.
Fedco Products
Griswold Machine Works
The Kalart Co., Inc.
Kin-O-Lux, Inc.
Lektra Laboratories
Mansfield Industries, Inc.
Neumade Products Corp.
Paillard Products Corp.
Revere Camera Co.

Title Letters
Clingtite Products Co.
Hollywood Cine Products
The Moviecraft Co.
Joseph Struhl Co.
Varigraph Co., Inc.

Titles, Printing Press
Kelsey Co.

Titles, Ready-Made
Elite Title Service
Hollywood Cine Products
Jack-O-Gram Studios
Prospect Products Co.
Title-Craft
Title Slides
U. S. Photographic Equipment Corp.

Titles, Custom-Made
Title-Craft

Viewfinders
Craig Movie Supply Co.
Elgeet Optical Co.
Grover Photo Products

MOVIE LABORATORIES

Ansco
Geo. W. Colburn Labs.
Kin-O-Lux

NEGATIVE AND PRINT IDENTIFIERS

Avery Adhesive Label Corp.
Champion Manufacturing Co.
Graflex, Inc.
Grover Photo Products
Roger Wm. Hammill
Lightning-Lite Co.
Ben Parker Co.
Photo-Mart
Stern & Co.

NEGATIVE BRUSHES

Biber Foto Corp.
Burke & James, Inc.
Delta Brush Co.
Eastman Kodak Co.
Nuclear Products Co.

NEGATIVE FILES

Burke & James, Inc.
Eastman Kodak Co.
Andrew E. Lutz
George Murphy, Inc.
The Nega-file Co.

NEGATIVE PRESERVERS

Cinelac Co.

NEGATIVE SCRATCH-REMOVER

Alden Manufacturing Co.
Churchill Laboratories
Inventions, Inc.

NEGATIVES, STOCK

Felix Distributing Co.
Photo-Mart

PAINTS & PROTECTIVE COATINGS, DARK-ROOM

The Lockrey Co.
Franklin M. Morgan, Inc.
National Chemical Co.
Slip-On, Inc.
U. S. Stoneware Co.
Wolff & Dolan

PRINTING AIDS

Blotters
American Camera & Supply Co.
Bernard Products
Compco Corp.
Eastman Kodak Co.
General Photographic Supply
Martin Products Co.

Drying Aprons—Indicator Type
American Photographic Instrument Co.

Color
Condit Mfg. Co.

Embossers
Alves Photo Service
Eastman Kodak Co.
Andrew E. Lutz
Mimosa American Corp.

Flattening Solution
Brown-Forman Industries
Eastman Kodak Co.
Merix Chemical Co.
Mimosa American Corp.
George Murphy, Inc.

Frames
Alden Mfg. Co.
Arel, Inc.
Burke & James, Inc.
Eastman Kodak Co.
Enteco Industries, Inc.
The FR Corp.
Garden & Williams
Mansfield Industries, Inc.
The Neder Corp.
Testrite Instrument Co.

Presses
Adams Retouching Machine Co.
Douglas Art Metal Co.

Protective Solution
Alden Manufacturing Co.
Ansco
Cinelac Co.
Curio Photo
Eastman Kodak Co.
Merix Chemical Co.

Rollers & Squeegees
Alden Manufacturing Co.
American Products Co.
Burke & James, Inc.
Compco Corp.
Duophoto Corp.
Delta Foreign Sales Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Enteco Industries
The FR Corporation
Grover Photo Products
Mansfield Industries, Inc.
Norman-Willets Co.
Photo Materials Co.
Radiant Specialty Corp.
Raygram Corp.

Straighteners
A. O. Braunstein
Eastman Kodak Co.
Morse Instrument Co.
George Murphy, Inc.

Tongs
Arel, Inc.
Baco Accessories Co.
Burke & James, Inc.
Compco Corp.
Curio Photo Co.
Delta Foreign Sales Co.
Eagle Photo Supply Co.
Enteco Industries
The FR Corporation
Fox Products Co.
General Photographic Supply Co.
Mansfield Industries, Inc.
Mimosa American Corp.
Testrite Instrument Co.

PROJECTOR STANDS

American Products Co.
Bell & Howell Co.
The Stanley Bowmar Co.
Burke & James, Inc.
Camera Specialty Co.
Jack C. Coffey
Colrod Mfg. Co.
Fox Products Co.
Kinnard Co.
Howard B. Marks Co.
Neumade Products Corp.
Petrick Brothers, Inc.
Jas. H. Smith & Sons
Testrite Instrument Co., Inc.

PROJECTOR ACCESSORIES

Advertising Displays, Inc.
Apel Photo Products
Barnett & Jaffe
Bell & Howell Co.
Carter Motor Co.
Davidson Manufacturing Co.
DeJur Amsco Corp.
Diamond Case Div.
Eastman Kodak Co.
Edmund Scientific Corp.
Ednalite Optical Co.
Elgeet Optical Co.
Fibre Case & Novelty Co.
Lightning-Lite Co.
Otto K. Oleson Co.
Otto Engineering Co.
Pioneer Patents & Prod. Co.
Projection Optics Co., Inc.
The Saunders Co.
Shaw Products
Spiratone
Tec Engineering Co.
Technics Company
Viewlex, Inc.
Wollensak Optical Co.
Zephyr Products, Inc.

RANGEFINDER AIDS—CAMERA TYPE

Alfa Photo Corp.
Burke & James, Inc.
Edmund Scientific Corp.
General Photographic Supply Co.
Kalart Co., Inc.
Meyer-Opticraft, Inc.
Photo-Mart

RANGEFINDER AIDS—POCKET TYPE

Eastman Kodak Co.
Meyer-Opticraft, Inc.

REDUCERS

Ansco
Atkinson Laboratories
Brumberger Co., Inc.
Craig Movie Supply Co.
Dyocol Products Lab.
Eastman Kodak Co.
Lockrey Co.
George Murphy, Inc.

REPAIRS—Camera, Shutter, Exposure Meter, Etc.

Ace Scientific Labs (S. Gate, Calif.)
Adam Archinal Corp. (N. Y. C.)
Ralph Altman (Chicago)
Amico Camera Co. (Utica, N. Y.)
Appleton-Funk (Denver)
August Camera Repair (Hollywood)
B & V Camera Repair Service (Chicago)
Baco Accessories Co. (Hollywood)
Bauman Camera Repair Lab. (Long Beach, Calif.)
Bobs Camera Service (Ogden, Utah)
Lawrence Butler (Chicago)
Camera Clinic (Sioux Falls, S. D.)
Camera Clinic (Kansas City, Mo.)
Camera Equipment Co. (N.Y.C.)
Camera Repair Corp. (N.Y.C.)
Camera Repair Service of San Diego
Camera Research & Repair (Los Angeles)
Camera Service Center (Lewiston, Me.)
Camera Services, Inc. (N. Y. C.)
Castle Photo Service (Wichita, Kans.)
Central Camera Repair Co. (Chicago)
Central States Camera Repair (Wichita, Kan.)

Manufacturers' and distributors' addresses begin on page 194

A LINE-UP OF EIGHT-SIXTEEN HITS

8mm & 16mm BULK FILM*

50-W Fine Grain Panchromatic
Fully Guaranteed

	each	12 for
50' Rolls	$ .45	$ 4.95
100' Rolls	.90	9.90
400' Rolls	3.60	37.50

(shipping weight—8 oz. per 100')

16mm SPECIAL OFFER

1500' (50' Rolls)	$11.50	$124.50
1350' (25' Rolls)	9.95	112.50

(shipping weight—5 lbs. each)

FULL *NATURAL* COLOR FILM FOR YOUR CAMERA AT BLACK & WHITE FILM PRICES

Here is the newest COLOR FILM to come out of the research laboratory. Made with present requirements in mind, we guarantee your complete satisfaction on a MONEY BACK GUARANTEE.

Color reproduction is true and faithful, no harsh, exaggerated colors, but rather all the pastel and deep colors in their glorious beauty. And, take a look at these prices. We know you will take advantage of this great value. Film is guaranteed fresh, Daylight or Tungsten. (Please specify.)

8-MM-16MM	each	6 for
8/8mm x 25'	$2.75	$16.00
8/8mm x 100' Bolex	7.50	42.50
16mm x 100'	7.50	42.50

35MM	each	6 for
20 Exp. Crtdge	$2.25	$12.95
36 Exp. Crtdge	3.95	22.50

ALL PRICES ABOVE INCLUDE PROCESSING, MOUNTING AND RETURN POSTAGE

BULK FILM

For those who do their own spooling, here is bulk film. Processing MUST be done in our own labs at the prices shown below.

8MM-16MM Film
200' Roll Bulk Film ..... $ 9.95
400' Roll Bulk Film 19.00
Add 2c per foot for processing.

35MM Bulk Film
100' Roll Bulk Film $22.00
Add $1.00 per 20 exp. Ctrdge for processing and mounting.

35mm KODAK HIGH SPEED FILM* SAFETY BASE

Never before available, only a fortunate purchase from U. S. Government refrigerated vaults can permit us to sell this film at such low prices. Film can be exposed at speeds up to 150 Weston in daylight. Film is fully guaranteed by us to be perfect even though short-dated. All original factory packing.

Available in the following put-ups:

	each	3 for
200' Roll	$ 3.95	$10.95
400' Roll	7.25	19.95
1,000' Roll	16.95	45.00

Prices for larger quantities available on request.

(shpg. wght.—2 lbs. per 200' Roll)

8mm-16mm BONUS OFFER FREE MOVIE FILM

With every purchase of 3 rolls, we will give you FREE—a 100' Roll of 16mm or a 50' Roll of 8mm CHARLIE CHAPLIN Film. Hours of untold mirth and pleasure for the entire family.

BLACK & WHITE MOVIE FILM F.G. PAN—50 W.

	each	3 for	6 for
8/8mm x 25'	$1.25	$3.75	$ 7.50
8/8mm x 100' (Bolex)	3.25	9.75	19.50
16mm x 100'	3.00	9.00	18.00
16mm x 50' Mag.	2.75	8.25	16.25

48 Hour processing and return included

(shipping weight—3 lbs. per 6 rolls)

ADDITIONAL FREE OFFER

With every purchase of 6 ROLLS, we will give you an ADDITIONAL roll of the film you buy, with the FREE Charlie Chaplin film as well.

(Limited offer. Subject to withdrawal at any time.)

35mm FILM*

For All 35mm Cameras
Load Your Own and Save Money!

ANSCO	Finopan, Supreme
KODAK	Ultra-Speed, Background-X
DUPONT	Plus-X, Super XX, Superior #1, Superior #2

	each	3 for
100' Roll, notched	$1.65	$ 4.50
200' Roll, notched	2.40	6.95
400' Roll, notched	5.25	14.50

(shipping weight—1 lb. per 100')

We may sub similar emulsion of another make to facilitate shipment of your order.

SPECIAL COMBINATION OFFER

With any 100' roll above, we'll include a BULK FILM LOADER and 12 Empty 35mm cartridges for the additional cost of only **6.30**

(shipping weight—10 lbs.)

35mm MASTER COLOR FILM

OFFERED FOR THE FIRST TIME!

Daylight 16W • Tungsten 24W

The same film used by Hollywood's professional movie studios, now available for amateur use! Has many purposes: (1) Helps you obtain additional transparencies of the same subject, (2) Provides black and white enlargements from the color negative, (3) You can get dye transfer prints without need of separation negatives, (4) You can make prints by standard printon method. Latitude in printing permits compensation for error in UNDER or OVER exposure. 20-exposure **2.95**

3 for $8.50 6 for $16.50

Price includes processing and return

ADDITIONAL TRANSPARENCIES $1.50 per roll

35mm ANSCO COLOR FILM*

daylight type—Guaranteed

100' rolls, notched for 20 exposures at no extra cost. Makes 30 20 exposure rolls at this unbelievably low price **$17.50**

(shipping weight—1 lb. per roll)

Ansco Color Film Dev. Kit, 1 gal. $2.95

(shipping weight—8 lbs. per kit)

Ansco 35mm EZ mts., box 1,000 $6.00

(shipping weight—6 lbs. per box)

ENLARGING PAPER IN ROLLS

Kodak Aero-Bromide Contrast #1-#2 SW Glossy paper in sealed metal cans.

9⅜" x 200' ..... **$2.95 ea.**
3 for $8.50 12 for $33.00

(shipping weight—10 lbs. each)

7" x 125' ..... **$1.89 ea.**
3 for $5.50 20 for $35.00

(shipping weight—5 lbs. each)

8mm-16mm-35mm POSITIVE FILM*

Hundreds of uses in every darkroom adds unlimited pleasure to your hobby.

Available in any above size:

	each	3 for
100' Rolls	$1.25	$ 4.00
200' Rolls	2.25	6.00
400' Rolls	4.25	12.00
1,000' Rolls	9.95	27.50

(shipping weight—1 lb. per 100')

ROLL FILM FOR YOUR CAMERA

Sizes:—127, 828, 120, 620, 116, 616, 50 Weston, 1953 Date Guaranteed Film

Sold at this low price to prove our efforts to keep prices low down. **$1.95** 10 rolls

20 for $3.75 50 for $8.75 100 for $16.50

(shipping weight—10 rolls, 1 lb.)

16mm Mag. Camera Owners

Tired of paying MORE for your film? Would you like to SAVE money? Here's how we can help you. We supply film on special cores, ready for instant loading into your own magazines. Full instructions included. Film includes Developing and return.

COLOR FILM RELOADS Daylight or Tungsten	BLACK & WHITE RELOADS PG Pan. 50-W	EMPTY 16MM MAGS. BRAND NEW, with instructions
$3.75 ea.	$1.40 ea.	75c each

NOTICE Please include sufficient postage. Any excess will be returned with your order. Orders sent without postage will be shipped Express C.O.D. 25% Deposit required on all C.O.D. orders.

*U. S. SURPLUS

EIGHT-SIXTEEN FILMS

243 W. 55th St., New York 19, N.Y.—Dept. P-5

Chicago Camera Specialists (Chicago)
H. C. Clark (Cashmere, Wash.)
Colorado Bellows Service (Denver)
Compro-Flash (Rochester, N. Y.)
Detroit Camera Works (Detroit, Mich.)
Eastern Film Libraries (Waterbury, Conn.)
Ferguson's Camera Repair Lab. (Pasadena, Cal.)
Fotofix Camera Repairs (N. Y. C.)
Foto-Tek (Portland, Oregon)
General Camera Co. (Chicago)
General Camera Repair Shop (San Francisco)
Gould Lens Service (Binghamton, N. Y.)
Arthur H. Hart (San Francisco)
Oscar Heinemann (N. Y. C.)
High Class Camera Repair Co. (Minneapolis)
Holland Camera Repair Lab. (Denver)
International Camera Corp. (Chicago)
Jackson Laboratories (Webster Groves, Mo.)
Jacksons' Camera Store (Miami, Fla.)
Kamra Corp. (New York 3, N. Y.)
Harold C. Levie (Baltimore, Md.)
Mack Camera Shop (Union, N. J.)
Mack's Cameracraft (Portland, Ore.)
E. B. Marjoran (Rochester, N. Y.)
James Marshall (Phil., Pa.)
William Meyerowitz (Bronx, N. Y.)
Midtown Optical & Camera Serv. Co. (N. Y. C.)
Mills Photo. Eng. Lab. (Hollywood)
Molers Camera Clinic (Wichita, Kans.)
Morgan Camera Shop (Hollywood)
C. W. Moyse (N. Y. C.)
Nickerson (Lynn, Mass.)
Northwest Camera Repair Co. (Minneapolis)
Optical Coating Lab., Inc. (Wash., D. C.)
Pierce Camera Rebuilding Lab. (Quebec, Canada)
Pipkin-Castle Photo Service (Oklahoma City)
Presto Camera Repair (Dallas)
Arthur H. Reynolds (Swampscott, Mass.)
Oskar Richter (Rochester, N. Y.)
R J Camera Laboratories (Los Angeles)
Roberts Photo Workshop (Nitcong, N. J.)
Sharman Camera Works (San Francisco)
Jay S. Simms (Monterey, Calif.)
Techni-Service Co. (N. Y. C.)
Trautwein & Magnus Camera Repair Shop (N. Y. C.)
Turner Associates (Rochester, N. Y.)
Unfried Photo Supply (Buffalo, N. Y.)
United Camera Co. (Chicago)
S. Walters (Los Angeles)
W. I. Willin & Co. (Alhambra, Calif.)
Willman Camera Service (Phoenix)
Willoughby's (N. Y. C.)

RETOUCHING ACCESSORIES

Brushes & Pencils
Delta Brush Co.
Eastman Kodak Co.
Germain Photo Specialties Co.
V & E Mfg. Co.

Erasers
V & E Manufacturing Co.

Kits & Sets
Alco Photo Supply
Alden Manufacturing Co.
A. O. Braunstein
Dayton Rogers Manufacturing Co.
Germain Photo Specialties
Spiratone
V & E Mfg. Co.

Knives
Alco Photo Supply
Burke & James, Inc.
Di Carlo Crystal Etcher Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
General Photographic Supply Co.
Raymond Georg
Germain Photo Specialties Co.
V & E Mfg. Co.
F. Weber Co.
H. K. Williams Co.

Machines
H. K. Williams Co.

Opaques & Solutions
Alden Mfg. Co.
Ansco
A. O. Braunstein
Burke & James, Inc.
Churchill Laboratories
Craftint Manufacturing Co.
Curio Photo
Dyacol Products Lab.
Eastman Kodak Co.
Raymond Georg
Germain Photo Specialties
Grey-al Dye Co.
Johnston's Snow-White Products Co.
Maurer Photo Co.
Norman-Willets Co.
Retouch Methods Co.
V & E Mfg. Co.
F. Weber Co.
Webster Brothers Lab.

Print-Etching Solution
Churchill Laboratories
Dyacol Products Lab.

Retouching Stands & Desks
Alden Manufacturing Co.
Burke & James, Inc.
Churchill Laboratories
Eagle Photo Supply Co.
Germain Photo Specialties
Grey-al Dye Co.
Henry Hjort
Minute Man Photo Products
George Murphy, Inc.
Nega-File Co.
Pacific Transducer Corp.
H. K. Williams Co.

Sharpening Materials
Raymond Georg

Spotting Colors
American Camera & Photo Supply
Craftint Manufacturing Co.
Dyacol Products Lab.
Eastman Kodak Co.
Grey-al Dye Co.
Retouch Methods Co.
Jas. H. Smith & Sons Corp.
Johnston's Snow White Products Co.
Webster Brothers Lab.

SAFELIGHTS & FILTERS

American Camera & Supply Co.
Ansco
Artisan Guild
B W Molded Plastics
Bar-Ray Products, Inc.
Brumberger Co.
Burke & James, Inc.
Compco Corporation
E. I. du Pont de Nemours & Co., Inc.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Lightning-Lite Co.
Minute Man Photo Products
Franklin M. Morgan, Inc.
Sylvania Electric Co.
Yankee Photo Products Corp.

SCALES, DARKROOM

Eastman Kodak Co.
Pelouze Manufacturing Co.

SCREEN POINTERS

Bardwell & McAlister
Burke & James, Inc.
Clay-Adams Co. Inc.
Ednalite Optical Co.
Penberthy Instrument Co.
Precision Electronic Products Co.

SELF-TIMERS

A. G. Photo Distributors
Alco Photo Supply
Baco Accessories Co.
Saul Bower, Inc.
Burke & James, Inc.
Burleigh Brooks Co.
Camera Specialty Co.
R. W. Cramer Co., Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Mimosa American Corp.
Photo Import & Dist. Corp.
Service Photo Supplies, Inc.
Spiratone

SENSITIZING KITS

Brush-A-Photo Co.
Eagle Photo Supply Co.
National Chemical Co.
Sun Foto Mfg. Co.

SHOULDER-BRACE (To Steady Camera)

Otto Engineering Co.

SHUTTERS

Arrowhead, Inc.
Eastman Kodak Co.
Elgeet Optical Co.
Graflex, Inc.
Kamra Corp.
Karl Heitz, Inc.
Ilex Optical Co.
Michigan Photo Shutter Co.
Tullio Pellegrini
Hans Unfried Photo Supplies
Wollensak Optical Co.

SHUTTER RELEASE

Body-Type
Burke & James, Inc.
Eastman Kodak
Effen Products
Ilex Optical Co.
Kalart Co., Inc.
George Murphy, Inc.

Cables
Alco Photo Supply
Saul Bower, Inc.
Burke & James, Inc.
Burleigh Brooks Co.
Eastman Kodak Co.
Effen Products
Heitz & Lightburn
Ilex Optical Co.
Kamra Corp.
E. Leitz, Inc.
Michigan Photo Shutter Co.
Mimosa American Corp.
George Murphy, Inc.
Unfried Photo Suppliers

Electrical
A. G. Photo Distributors

Cable Extensions
De Groff Laboratories

Pumps
Ilex Optical Co.

SHUTTER TESTERS

Hollywood Precision Labs.

SILVER RECLAIMING

Edmund Scientific Corp.
Gopher Laboratory
National Chemical Co.
States Smelting & Refining Co.
Urell, Inc.

SLIDE ACCESSORIES

Binders
Aabalton's Photofit Co.
Arel, Inc.
Semon Bache & Co.
Brumberger Co., Inc.
Burke & James, Inc.
Clay Adams Co.
Compco Corporation
Davidson Manufacturing Co.
Deep-Vue Corp.
Eastman Kodak Co.
Erie Scientific Corp.
GoldE Manufacturing Co.
Karl Heitz, Inc.
Kimac Company
E. Leitz, Inc.
Mino-Mount Co.
Porter Mfg. Co.
W. K. Smithson Co.
Society for Visual Education, Inc.
U. D. A. Co.

Changers
Airequipt Mfg. Co., Inc.
GoldE Mfg. Co.
Three Dimension Sales Co.

Files
Aabalton's Photofit Co.
Arel, Inc.
Barnett & Jaffe
Brumberger Co., Inc.
Burke & James, Inc.
Clay Adams Co.
Craftsman's Guild
Davidson Manufacturing Co.
Deep-Vue Corp.
Eastman Kodak Co.
FR Corp.
G-M Laboratories, Inc.
GoldE Mfg. Co.
Kimac Company
E. Leitz, Inc.
George Murphy, Inc.
Mills Affiliates
The Nega-file Co.
Neumade Products
Pioneer Patents & Products
Plastro, Inc.
Society for Visual Education, Inc.
Westerlind Products
Zephyr Products, Inc.

File & Viewing Combination
Aabalton's Photofit Co.
Airequipt Mfg. Co., Inc.
Brumberger Co.
Craftsmen's Guild
Deep-Vue Corp.

Frames, Mounts & Accessories
Brumberger Co.
Burke & James, Inc.
Chromat-o-Scope Co.
Craftsmen's Guild
Deep-Vue Corp.
Eastman Kodak Co.
Emde Products
Erie Scientific Corp.
GEMounts
GoldE Manufacturing Co.
Karl Heitz, Inc.
Holson Binders, Inc.
The Houston Corp.
Keys Stereo Products
Kimac Co.
E. Leitz, Inc.
Andrew E. Lutz Co.
Porter Mfg. Co.
Sawyers, Inc.
Society for Visual Ed.
Tri-Vision Sales Co.
Tru-Vue, Inc.
Videon Camera Sales, Inc.
Unfried Photo Supply

Mailing Cases
Barnett & Jaffe

Slide Sealers
Radiant Specialty Corp.

Title Letters
California Pattern Letter Supply
Clingtite Products Co.
Hollywood Cine Products
H. W. Knight & Son
Mitten's Movie Titlers
The Moviecraft Co.
Prospect Products Co.
Joseph Struhl Co.
Super-Cam Products
Varigraph Co., Inc.

Titles, Printing Press
Kelsey Co.

Titles, Ready-Made
Elite Custom Titling Service
Hollywood Cine Products
Jack-O-Gram Studios
Prospect Products Co.
Super-Cam Products
Title-Craft
Title Slides
U. S. Photographic Equipment Corp

Titles, Custom-made
Title-Craft

Viewers
Aabalton's Photofit Co.
Arcadia Manufacturing Co.
Bausch & Lomb Optical Co.
Bernard Products
Brumberger Co., Inc.
Burke & James, Inc.
Clay-Adams Co. Inc.
Craftsmen's Guild
Deep-Vue Corp.
Eastman Kodak Co.
The FR Corporation
J. & M. Products Co.
Kimac Company
La Belle Industries, Inc.
E. Leitz, Inc.
Mast Development Co., Inc.
Mico Photo Products Co.
Pictar
Pioneer Patents & Products Co.
Sawyer's Inc.
Testrite Instrument Co., Inc.

SOLUTION HEATING UNITS

National Chemical Co.
Schaeffer Co., Inc.
Still-Man Co.

SOUND RECORDERS

Ampro Corp.
Caltron Co.
Capitol Projector Co.
Cinetech Co., Inc.
George Culbertson
Florman & Babb
Movie-Mite Corp.
Movievox Co.
Revere Camera Co.
Victor Animatograph Corp.
Webster Electric Co.

SOUND RECORDERS SYNCHRONIZED

Movievox Co.
Wilson & Garlock

SOUND TURNTABLES

Caltron Co.
George Culbertson

SPONGES

The Barco Chemical Products Co.
Burke & James, Inc.
George Murphy, Inc.

TEMPERATURE CONTROLS

Bar-Ray Products, Inc.
Oscar Fisher Co., Inc.
Lawler Automatic Controls, Inc.
Minneapolis-Honeywell Regulator Co.
Franklin M. Morgan

TEXTURE SCREENS

E. I. du Pont de Nemours & Co., Inc.

THERMOMETERS, DEV.

Arel, Inc.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Oscar Fisher Co., Inc.
The FR Corporation
General Photographic Supply
George Murphy, Inc.
Ohio Thermometer Co.
Testrite Instrument Co.
Watrous & Co.
Weston Electrical Instrument Corp.

THERMOSTATIC CONTROLS

Oscar Fisher Co., Inc.
Lawler Automatic Controls, Inc.
Stouffer Graphic Arts Equip.

Manufacturers' and distributors' addresses begin on page 194

TIMERS, CHRONOGRAPH
Jardur Import Co.

TIMERS, DARKROOM
Baco Accessories Co.
Burke & James, Inc.
Dimco-Gray Co.
Dixie Controls Co.
Eastman Kodak Co.
The FR Corporation
General Photographic Supply
Lektra Laboratories, Inc.
Norman-Willets Co.
Service Photo Suppliers
Walser Automatic Timer Corp.

TONERS
Alves Photo Service
Ansco
Braun Laboratories
Eagle Photo Supply Co.
Eastman Kodak Co.
Edwal Laboratories
The FR Corporation
Gross Photo Supply Co.
Alvin Lohnes Co.
Merix Chemical Co.
George Murphy, Inc.
National Chemical Co.
Retouch Methods Co.
Webster Brothers Lab.

TRAYS
Adler's Metal Works
Artisan Guild
Bar-Ray Products, Inc.
Calumet Mfg. Co.
Dayton Rogers Manufacturing Co.
Duophoto Corp.
Eastman Kodak Co.
Oscar Fisher Co., Inc.
The FR Corporation
Franklin M. Morgan, Inc.
Testrite Instrument Corp.
Urell, Inc.
Yankee Photo Products Corp.

TRIMMERS
American Photo Laboratories
Milton Bradley Co.
Chandler Machine Co.
Delta Foreign Sales Co.
Duophoto Corp.
Eastman Kodak Co.
Edi Trimming Machines
General Photographic Supply Co.
Karl Heitz, Inc.
Ideal School Supply Co.
Laukhuff Mfg. Co.
Photo Materials

TRIMMERS—DECKLE
Chandler Machine Co.
Delta Foreign Sales Corp.
Karl Heitz, Inc.

TRIPODS
A. G. Photo Distributors
Alco Photo Supply Corp.
American Camera & Photo. Supply Co.
American Photographic Inst. Co.
American Products Co.
Ansco
Arrow Metal Products
Artcrafters Industries
Baco Accessories Co.
Bell & Howell Co.
Biber Foto Corp.
Saul Bower, Inc.
Burke & James, Inc.
Camera Equipment Co.
The Camera Mart, Inc.
Camera Specialty Co.
Cleveland Instrument Service Co.
Davidson Manufacturing Co.
Delta Foreign Sales Corp.
Director Products Corp.
Eastman Kodak Co.
Edmund Scientific Corp.
Garden & Williams
General Photographic Supply Co.
Graflex Inc.
Karl Heitz, Inc.
Kalart Co., Inc.
Kinnard Company
Kling Photo Supply
Lightning-Lite Co.
Howard B. Marks Co.
Mitchell Camera Co.
Otto Engineering Co.
Pagliuso Engineering Co.
Photographic Importing & Distributing Corp.
Quick-Set, Inc.
Radiant Specialty Corp.
Read Photo Products
Service Photo Suppliers
Spiratone, Inc.
Sun Ray Photo Corp.
Superior Specialty Co.
Testrite Instrument Co., Inc.
W-K Manufacturing Co.

TRIPODS, ROLLING
Camera Equipment Co.
L. F. Deardorff & Sons Co.
Lightning-Lite Co.
Read Photo Products

TRIPOD ACCESSORIES
A. G. Photo Distributors
Arrowhead, Inc.
B-T Co.
Baco Accessories Co.
Biber Foto Corp.
Saul Bower, Inc.
Brownie Specialty Shop
Burke & James, Inc.
Burleigh Brooks Co.
Delta Foreign Sales Co.
Effen Products
Florman & Babb
Howard B. Marks
Photo Equipment Manufacturing Co.
Quick-Set, Inc.
Read Photo Products
Scientific Enterprises
Schmidt & Co.
Superb Photo Accessories Co.

Extensions
Arrowhead, Inc.
Eastman Kodak Co.
Photographic Products, Inc.

Heads
American Products Co.
Arel, Inc.
Arrow Metal Products Co.
B-T Co., Inc.
Baco Accessories Co.
Saul Bower, Inc.
Brownie Specialty Shop
Burke & James, Inc.
Camera Equipment Co.
The Camera Mart
Camera Optics Mfg. Co.
Camera Specialty Co.
DeGroff Laboratories
Eastman Kodak Co.
Effen Products
Garden & Williams
General Photographic Supply Co.
Graflex, Inc.
Karl Heitz, Inc.
Kling Photo Supply
E. Leitz, Inc.
Mitchell Camera Co.
George Murphy, Inc.
Otto Engineering Co.
Pagliuso Eng. Co.
Panogear Industries
Photographic Importing & Distributing Corp.
Quick-Set, Inc.
Radiant Specialty Corp.
Read Photo Products
Service Photo Suppliers
Spiratone
Testrite Inst. Co., Inc.

VENT'LATORS
Artisan Guild
Bar-Ray Products, Inc.
W. B. Connor Engrg. Corp.
Elkay Photo Products, Inc.
The Holmis Co.
Midg-O Co.
Franklin M. Morgan, Inc.
George Murphy, Inc.
NuTone, Inc.
Raytheon Manufacturing Co.
Universal Yonkers Corp.

VIEWERS
Large Transparency
Artisan Guild
Baco Accessories Co.
Bar-Ray Products, Inc.
Brumberger Co.
Clay-Adams Co., Inc.
Craftsmen's Guild
La Belle
Moviette, Inc.
S. E. Overton Co.
Ponder & Best, Inc.
Sawyer's, Inc.

Stereoscopic
Brumberger Co.
Busch Camera Corp.
Craftsmen's Guild
Deep-Vue Corp.
Holson Binders, Inc.
Keys Stereo Products
Polaroid Corp.
Radex Stereo Co.
Revere Camera Co.
Sawyer's, Inc.
Standard Stereo, Inc.
Taylor
Tru-Vue Co.
David White Co.

VIEWFINDERS
Alfa Photo Corp.
Arrowhead, Inc.
Biber Foto Corp.
Bell & Howell
Burke & James, Inc.
Busch Camera Corp.
Curtis Laboratories, Inc.
Elgeet Optical Co.
Grover Photo Products
Arthur H. Hart
Kling Photo Supply
E. Leitz, Inc.
George Murphy, Inc.
Photographic Importing & Distributing Corp.
Starr Corp.
Wollensak Optical Co.

WASHING DEVICES
Adler's Metal Works
Arel, Inc.
Arkay Corp.
Artisan Guild
Bar-Ray Products, Inc.
Burke & James, Inc.
Delta Foreign Sales Corp.
Kingdon Photo Accessory Co.
Eastman Kodak Co.
A. J. Ganz Co.
Hydrojet Corp.
Franklin M. Morgan, Inc.
George Murphy, Inc.
Richard Manufacturing Co.
Robar Photo Equipment Co.
Superior Specialty Co.

WATER FILTERS
Alsop Engineering Corp.
Barnstead Still & Sterilizer Co.
Commercial Filters Corp.
Crystal Research Labs., Inc.
Elkay Photo Products, Inc.
Filter-Kleen Manufacturing Co.
Oscar Fisher Co., Inc.
La Motte Chemical Products Co.
Mansfield Aqua-Mite Filter Co.
Penfield Mfg. Co., Inc.
A. E. Tomkins & Co.

WETTING AGENTS
Ace Photo Laboratories
Alden Manufacturing Co.
Arel, Inc.
Atkinson Laboratories
Carbide & Carbon Chemicals Co.
Curio Photo Co.
Director Products Corp.
Eastman Kodak Co.
Edwal Laboratories
Lockrey Co.
Merix Chemical Co.
Mimosa-American Corp.
Franklin M. Morgan, Inc.
George Murphy, Inc.
National Chemical Co.
Urell, Inc.

What's cooking in Cameras?

Bass has a whole pot full of juicy camera bargains. Why not get in touch with him.

Charles Bass
President

Bass CAMERA Co.
179 WEST MADISON ST.
CHICAGO 2, ILLINOIS
CAMERAS SINCE 1910

THE WORLD'S FINEST LEATHER CAMERA BAGS AT BETTER CAMERA STORES

Perrin CALIFORNIA

The Story of CALIFORNIA SADDLE LEATHER*

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Manufacturers' and distributors' addresses begin on page 194

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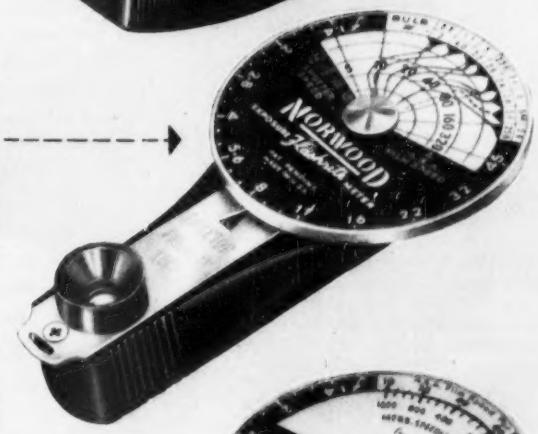

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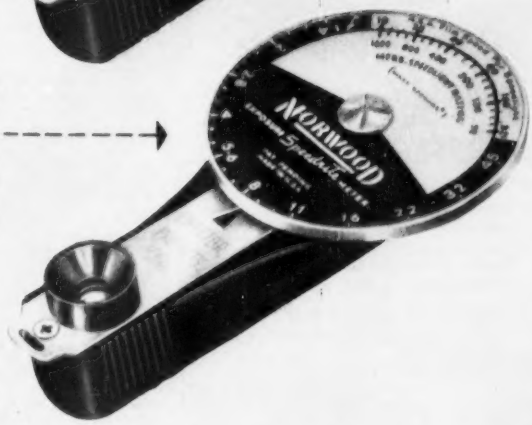

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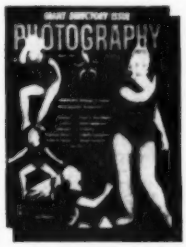

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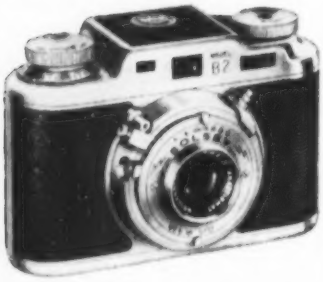

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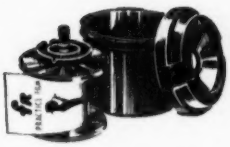

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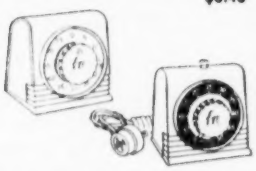

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Glamour Gadgets

(Continued from page 42)

her on his special posing stool, a four-legged bench, one-third of which can be raised as much as 12 inches by means of a small crank on the side. The raising mechanism was adapted from an automobile jack.

This unique bench facilitates posing by adjusting to the subject instead of having the subject adjust to it. Its elevating section, generally used as an arm rest, can be quickly adjusted to any height, thus eliminating the frantic routine of scurrying around for just the right size books to prop under a model's elbow.

At 20th, however, thanks to the ingenuity of assistant Clint Urtubees, these slight changes can be engineered without the model having to ripple so much as a muscle. Clint designed and built a modeling platform with built-in turntable on which the model can be turned 180 degrees in either direction without disturbing her pose. The turntable can be locked in position at half-inch intervals.

Now it's time for Debbie to take a standing pose in a slinky evening gown. She is to rest an elbow on a draped pedestal, but does Powolny waste time hunting for a pedestal of just the right height? No. He simply brings out his special adjustable model rest which is an elbow-size platform on a sliding pipe support which can be adjusted to any desired height. A simple gadget—but extremely effective in cutting down waste motion.

Though a good deal of attention goes to the glamorous foreground, the background also comes in for its share of consideration, and here, 20th's gadgeteer camera boys built a quick-change, portable affair that takes the hem and haw out of choosing and setting up small portrait backdrops. The device consists of a large vertical rack that stores eight 5x6 foot backdrop panels in grooved slides, and serves as the portable support for the one being used. From this rack, any desired backdrop can be pulled quickly out of its storage slot and slipped into a grooved track up front where it is held ready for use. The backdrops are made of canvas stretched over wooden frames. The whole unit is mounted on casters for easy maneuverability.

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an 11x14 camera on a large studio stand is something the average commercial photographer can't do, but Powolny and company made it possible by altering the stand somewhat. First, they added a couple of extra lengths of gear track to the vertical posts to permit the camera platform to be racked up to the top of the posts. Then, to increase its angle of tilt, they altered the bracket mechanism under the platform support by adding an adjustable rod which could be extended to a greater length than the original one. With this arrangement, Powolny can get better than a 45-degree tilt to his camera and shoot from a considerably higher position than previously possible.

A prime time waster with view cameras is the eternal trek made to the front of the camera for the purpose of stopping down the lens after each focusing session. To put an end to this chore, the 20th boys devised a gadget that permits instantly stopping down to a pre-set aperture without leaving the groundglass position. The gadget consists of a narrow metal panel which bolts to the front of the camera over the lens board and shows on front and back, the *f*/stop markings that correspond to the lens. The aperture knob of the lens is fitted with an arm which extends up through a slot in the bottom of this panel and has a pointer which lines up with the *f*/markings on the panel. By moving this arm along the slot, Powolny can see at a glance from behind the camera just where his diaphragm opening is set. A sliding stop-screw, fitted in the slot, can be pre-set to any desired aperture marking.

Another simple improvement the boys made on their large view camera is the flash sync-ing device which they built into the Packard shutter. By means of a small metal bracket attached over the shutter's plunger, an electric micro-switch was mounted in such a position that when the bulb is squeezed, the rising plunger contacts the switch and fires the bulbs in time to reach their peak at the opening of the shutter.

For giving dramatic lighting to dramatic necklines, Clint added a couple of pivoting metal shields to the front of the spotlight's snoot. These permit the shaping of the light into a "V"—an arrangement which does wonders in highlighting a model's outstanding features.

Though props and accessories are plentiful at 20th, Powolny never limits himself to orthodox procedure. He'll take an ordinary piece of furniture, like a fancy chair, tip it over or stand it on end, and use a decorative portion of it as an unusual and dramatic background design.

When working with subjects who have difficulty looking into bright lights, Powolny sets up a white panel alongside the offending spotlight and illuminates this by directing the hot beam of another spotlight on it. This brightly illuminated panel has a subduing effect on the glare of the spotlight next to it, and makes it much easier for the model to look into the light.

And so ends a day with Debbie and Powolny. Many gadgets and gimmicks have been used, but the only indication of this is the quantity and quality of the work that has been turned out.—

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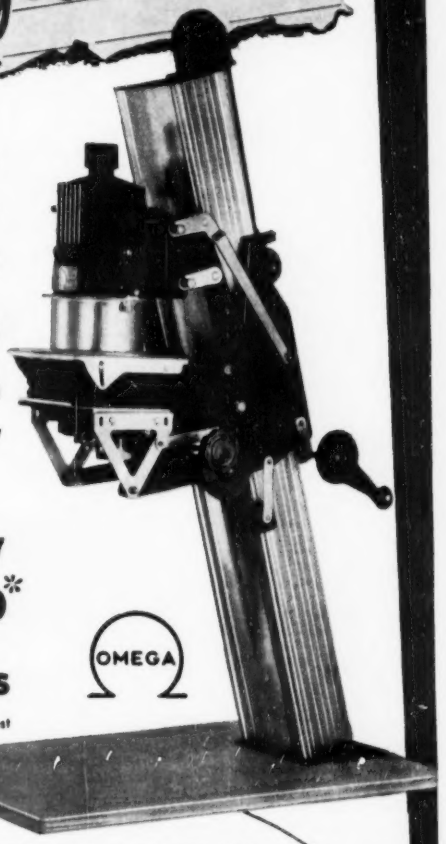

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Stalking Game

(Continued from page 77)

breathing while filming with hand-held telephoto camera. Steadiness is a must, so hold camera against solid support.

While most wild game makes track fast when once discovered, (waterfowl have been clocked at a mile a minute in flight) variable film speeds are suggested for slowing down such movement to allow the eye to comprehend and study wildlife motions. For instance, a deer crashing through a thicket can be shot at 32 or 64 frames a second to show the grace in the movement of the animal's legs and antlered head. The rapid wing beat of a duck can be slowed to reveal its up-and-down wing rhythm with all the beauty of a feather-clad ballet dancer.

How does change of camera speed affect exposure? Each time such speed is doubled, say, from 16 to 32 frames a second, the next larger lens opening must be used. If we jump to 64 frames, two stops over normal must be used. Thus, good light is necessary when changing to higher camera speeds—to avoid underexposure.

At 64 frames a second, 100 feet of 16-mm film runs through the camera in approximately one minute instead of the normal four minutes. This means that slow-motion filming can be costly unless

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every precaution is taken to insure good results. Always check exposure before every scene, and be sure camera spring is fully wound.

An exposure meter is a must. However, judging exposure with a meter when using a telephoto lens can be tricky because the reading must be made for only the small distant area encompassed by the lens. In such a case, take the reading off a nearby subject of similar lighting and color. Of course, the light must fall in the same direction to give an accurate reading. A camera gunstock is a valuable accessory when shooting wildlife on the run. Most any old gunstock can be revamped by your local gunsmith to fit your shoulder and your camera. A tripod screw inserted through the fore end holds the camera firmly in position so that the camera gun can be carried under the arm when tramping afield, and pulled up to the shoulder with minimum effort for split-second filming. A gunstock can be carved from a wooden blank, but in every case it should be designed with proper drop for careful and accurate sighting. Some gunstocks have been used with a drop-seat arrangement to place the viewfinder at a more convenient eye-level. Gunstocks can be purchased commercially for certain cameras, including the Bell & Howell.

Photographing wild life with a movie camera is, perhaps, 50 per cent technique and 50 per cent plain good luck. If you can be at the spot where game is found at the right moment, you stand a fair chance of obtaining reasonably good footage. But all the technique you may possess may avail you little if the game is not there.

Big game always should be stalked upwind, since most animals trust their sense of smell even more than their sight. On quiet days, stalk with the sun at your back—it is just as painful to an animal as it is to a human to look into the sun, and the animal will avoid it whenever he can. Watch where you step, but more than that, watch your backgrounds. You will be detected less easily when approaching game if you stay below ridgelines and prevent your body from being silhouetted against the sky. Match your clothing to the background in which you intend to work.

Blinds sometimes are used in wild-life moviemaking, particularly at wallows or feeding areas where animals return from time to time. These always should blend with the background, and should be erected a few days before actual filming to permit the animal to become accustomed to the new and strange object.

Some of the best wild-life scenes and sequences often are taken quite by accident just around the next bend in the road or the winding stream. Consequently, your camera should be kept in readiness at all times.

You might spend patient hours and days in pursuit of a moose or a mountain sheep, then be returning to camp, disgruntled and tired, only to have a moose or mountain sheep walk right up to within easy shooting distance. That's one of the fascinating things about wild-life moviemaking.—

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Eyerman

(*Continued from page* 75)

Muroc, Calif. The problem here was to trip the shutter at exactly the split second the plane entered the camera's field of view. Such precise timing would have been difficult, if not impossible, to accomplish by hand since the jets roared past at speeds in excess of 800 m.p.h. Some robot device was needed to trip the shutter electronically.

Eyerman found his answer in a $4.95 surplus radio altimeter. The altimeter, standard equipment on many World War II aircraft, sent out a beam of radio impulses which bounced off the ground and were picked up again by the unit's combination transmitting-receiving antennas. The device not only measured altitude but flashed a warning red light whenever the plane flew too close to the ground. Eyerman rewired his set so that it would trip a relay instead of flash a light. The relay in turn triggered a solenoid on the camera shutter.

He set up the antennas so that they beamed an invisible barrier of radio impulses across the plane's line-of-flight. When the plane entered the beam, like a runner breaking a tape at the finish line, it sent echos back to the altimeter, closed the relay, and tripped the shutter. To compensate for a 26-millisecond delay in the relay and solenoid circuits, Eyerman moved the antennas ahead towards the plane's starting point the number of feet he estimated the plane would travel in 26 milliseconds.

Another technique which Eyerman sometimes employs (although he did not originate it) is "bled-strobe," a combination of electronic flash to freeze a moving object sharply plus a slow shutter to record motion blur. He explains, "The trick is simply to synchronize your shutter so that the flash comes at the *end* of the time the shutter is open instead of at the start, as is the case with conventional speedlight synchronization." Thus, with any action subject, you get a comet's tail of blurred movement behind the razor-sharp speedlight image. Of course the subject must be well lighted so that the film will record an image during the pre-flash stage, and the background must be dark enough so that it doesn't "burn up" the area where the flash image appears.

Eyerman stems from a photographic background; his mother operated a studio in Montana and his father eventually became a well-known portrait photographer in Los Angeles where he shot publicity pictures of Pearl White, Fatty Arbuckle, Douglas Fairbanks, and other bygone cinema greats. "Dad used to get orders for many thousands of prints at a time," recalls Eyerman. "Then someone thought of offset printing!"

He received most of his photographic training from his mother, via the hard, thorough, apprentice system. "My earliest recollection of photography is playing in an old hypo barrel near my mother while she made platinum prints in the sun in a little shack on the studio roof," he remembers.

However, young Jay majored in civil engineering when he entered the University of Washington at Seattle. After a few years as an engineer, during which time he picked up much valuable technical know-how, he switched careers and became a commercial photographer. Eyerman soon built up a thriving studio business in the advertising, illustration, and portrait line. *Life* noticed his pictures and began to give him assignments. After Pearl Harbor he joined the *Life* staff and covered the war as a roving photographer. He's been on their masthead ever since.

For a few years after the war Eyerman worked in *Life's* New York headquarters as chief of photography. During this time he designed, built, and put into operation the now famous color lab, and reorganized the magazine's complex negative editing system. Eyerman's routine, which many other pubications have adopted, makes it possible to print less than 20 per cent of the negatives shot on any story, rather than 60 or 70 per cent as previously was the case. Eyerman also designed a speedlight copy camera which enables the rapid copying of 8x10 prints; now, more than 70,000 prints later, the camera still is going strong.

How does Eyerman rate as a photographer? One man of judgment who has known and worked closely with Eyerman for a long time is Wilson Hicks, former executive editor of *Life*. Says Hicks:

"Jay Eyerman has developed a remarkable facility for thinking out in advance how he is to take a picture. Of all the photographers I know he is one of the most skilled at translating an idea into the technicals of the camera. He has a way of talking things over with himself. He also has a wonderful way of talking about photography with others. In many a session with him I have been deeply impressed by his penerating insight into picture problems, both those of the photographer in relation to the people with whom he works and those of the actual business of using the camera."—

Eyerman—Color

(*Continued from page* 50)

covered that distortions in one step could be controlled by counter-distortions introduced in other steps.

To the Eastman emulsion scientists this probably sounds like adding suicide to bankruptcy, but we weren't working for theoretical results which would fill out a scientific paper or make a nice chapter in Dr. Mees' book. What we wanted was a process that would yield reasonably fast color when we needed it. The process, as we now have it, does meet that specification.

Life spent about $10,000 on materials alone in nailing down our present process. We used the experience of the entire staff to prove it. We have our satisfaction in the fact that without special filters "just any photographer" now can shoot Ektachrome at an exposure index of 50 (instead of 8) with reasonable security in the final results. Personally, I have been engaged in this experiment for over six years. I have had help from everyone

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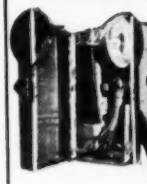

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who works in color at *Life*. Any credit for the process should be labeled, "Developed by *Life* Color Department."

The basic problem wasn't just raw speed; it was speed plus color balance. Any fool could overdevelop color film in the first developer for 60 minutes and get a lot of image. But what good is this if the result is so badly out of balance (with blue, red, or magenta predominating) as to be unusable, or so contrasty as to be hideous to the eye?

As you know, the three layers of emulsion in Ektachrome range in speed from very slow in the yellow (blue-sensitive) layer which is closest to the lens; a medium speed emulsion in the magenta (green-sensitive), which is in the middle, and an extremely fast emulsion in the cyan (red-sensitive), which is on the bottom.

In black-and-white photography it is very easy to speed up a slow emulsion several hundred per cent by combinations of extended development, pre-fogging, and hypersensitizing. In color photography you can do the same thing to the slow emulsion in the top layer. But it is far more difficult to speed up the fast emulsions in the bottom layers—they already are approaching the limits of gain.

This fact always has been a pitfall of "general" sensitizing and prolonged development processes—you always end up with a gain in speed of about four or five times in the yellow area against only one or two times in the magenta and cyan. The effect of simple overdeveloping without control is to wash out the yellow, especially in the high-key areas, and apparently to break down the cyan coupler. The net result is an over-all magenta cast, a shortage of yellow, and a shortage of cyan. We had to devise a foolproof system of selectively hypersensitizing the two bottom layers (to neutralize the magenta cast) and reducing the extreme contrast that comes from overdeveloping.

As a practical approach we set up some color charts and started shooting at higher-than-normal speeds, then processed over and over again with variations in method to try and get the finished result to match the original.

Altogether we made between three and four thousand tests with all possible combinations of corrective filters; sensitizing by pre and post fogging; prolonged development; hypersensitizing with mercury, acetic acid, and ammonia. We tried to control the excess magenta image by selective dye bleaching of the final transparency. That didn't work because there just isn't any good magenta bleach which doesn't attack the cyan and yellow as well. So we gave that up and returned to controls exercised earlier in the processing. For a time we shot through a light-green filter to balance out the excess magenta. However, this was basically contradictory in a high-speed process because we achieved balance on one layer only by slowing down the other two.

It was then that we noticed in an instruction leaflet that a symptom of incomplete reversal exposure was a greenish transparency. There, plain for all to see, was the basic solution to our problem of color balance. We could control the ex-

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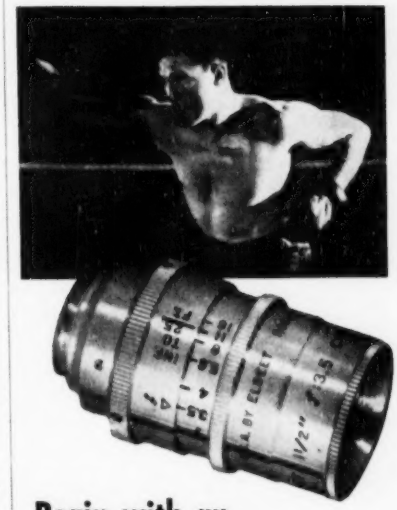

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cess magenta by controlling reversal. From there on it has simply been standardizing the process to the point of dependability.

We found that there were five places in the Ektachrome process where speed could be gained or control exercised. Here is our present routine, step-by-step:

1 **SELECTION OF EMULSION.** This is the very beginning of the color speed-up. Ektachrome emulsions vary by test-in-use by as much as a full stop from the slowest to the fastest. They also vary as much as one CC filter step "hot" or "cold" from the standpoint of color balance. We select emulsions with great care to find a lively one—anywhere from one-quarter to one-half stop faster than normal. There is absolutely no use in trying to speed up a slow or "dead" emulsion. For speed work we prefer a "warm" working emulsion to a "cold" or bluish one. The reason for this is that it's very easy to gain speed in the yellow layer, but very difficult to pick up speed in the cyan. When *Life* finds a "good" emulsion we buy several hundred boxes and "freeze" them until ready for use. We have a rule in our lab—"All color film should be stored at the temperature of a glass of beer."

2 **PRE OR POST FOGGING.** If a color emulsion is fogged slightly either before or after exposure in the camera there is a slight gain in speed and a reduction in contrast. The reason is that slight fogging raises the faint latent images in underexposed areas to the threshold of the silver emulsion and makes it possible to record them in silver in the first developer. This accounts for the increase in speed. However, the slight fog has little noticeable effect on the normally-exposed areas where a firm latent image already exists. Thus shadow areas are improved without disturbing highlights. Bringing the two closer together in tone obviously reduces contrast.

We find it doesn't matter much whether you fog before or after the exposure, but usually it's more convenient to post fog. The yellow (blue-sensitive) layer being on top gains more during overdevelopment than the magenta or cyan layers. Therefore we must avoid any emulsion-speed gain in that layer during the fogging. We fog from the front through a Wratten G (deep-yellow) filter, which absorbs the blue light and leaves the yellow dye image of the top layer unaffected. To gain optimum balance in the two other layers we add to the yellow filter either a very weak cyan (red-absorbing) or very weak magenta (green-absorbing) filter, depending on the characteristics of the emulsion. Thus we get a balanced speeding up of the two bottom layers only.

The very slight fogging is done in one flash. To give you a rough idea, the amount of light we use is about what you get when you puff up a cigarette in a dark room. Actually, our setup is a 7-watt frosted white Christmas bulb in a Brownie safelight over which is fitted the *glass* G filter. Over this we use a 1.00 neutral-density filter with the hole reduced to about one inch in diameter. We expose from one to two seconds at a distance of two feet, regulating the ex-

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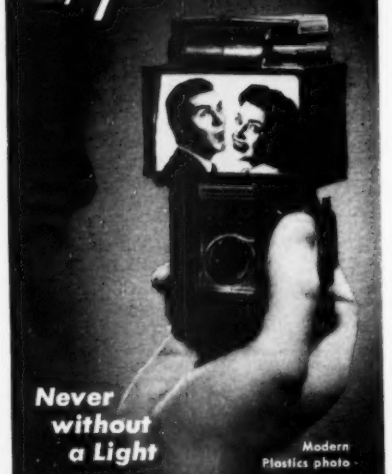

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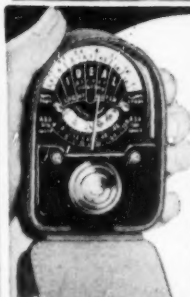

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posure with a timer. With Aerial Ektachrome roll film we use a motor to run the film past a narrow slit above which is placed the safelight at the usual distance. We control exposure by regulating the speed at which the film moves.

3 CONTROL OF FIRST DEVELOPER. Here the photographer is torn between the gains he can make in speed by prolonged development and the problems he creates for himself later on in balance, contrast, and dye pattern. We found that about 18 to 20 minutes at 75 degrees F, coupled with the other steps in this process, give us a very nice "ASA" 50 with the least dye pattern and the best balance. This is fast enough for most work in daylight. But in tough situations, like the time we needed a film speed of 150 to photograph the Aurora Borealis, we reach as far as we dare. We always develop promptly—the high-speed latent image falls away rapidly.

4 CONTROL OF THE REVERSAL PROCESS. This is the real gimmick of the *Life* process. To oversimplify, the reversal process is virtually "printing" the unused silver left after the first development. Normally Ektachrome is totally reversed. However, under-reversing an underexposed transparency is somewhat like underexposing and fully developing a print to get good results from a thin black-and-white negative. In the color process if you reverse slightly rather than fully you can retain low-key values which otherwise would be lost, just as a heavy exposure blackens shadow detail in a paper print. We found that the best place in the procedure for this partial reversal exposure is about halfway through the color developer. We develop in the color developer for about eight minutes blacked out, re-expose for about 10 seconds on each side of the film in normal room light (not photofloods), then complete seven minutes of developing in the dark again. We gauge the amount of reversal exposure to "just get a black" in the darkest areas of the transparency. The margin of the transparency makes a good guide.

5 CONTROL OF COLOR DEVELOPMENT. Contrast of the final transparency is a function of development time in the color developer. Often we alter this time as much as two or three minutes to adjust the contrast and color saturation to our taste. The two contrast controls which we play off against each other are fogging and color development. Usually we fog to the point where it is just noticeable in the clear margins of the transparency after first development. This is seen in the cyan (back) side of the film because, as I already have explained, the yellow (front) layer is not fogged. Then we adjust the color development until we just lose the deep maroon in the margin—this can be observed only in the finished and dried transparency. Every emulsion has slightly different color characteristics which must be taken into account in very critical color work. We always shoot a test shot to run ahead of a valuable transparency if we don't have any data on the particular emulsion we are processing. We want to see the dry transparency before we run through any "$10,000-a-page" shots.—

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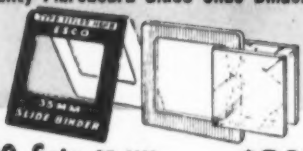

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PORTFOLIO NOTES

PAGE 58-59 The two ballet dancers were photographed by Brassai at the Paris Opera House with a Voigtländer and a 135-mm Heliar lens. He used open flash with an aperture setting of *f*/9.

PAGE 60 Daniel Schwartz photographed *Monique* with a Rolleicord III, equipped with a 3½-in. Schneider Xenar *f*/3.5 lens. The exposure was for 1/50 second at *f*/8, and the film was Super-XX.

PAGE 61 The young man, lost in his own thoughts amid the bustle of Piazza della Signoria in Florence, Italy, was caught by Daniel Schwartz with a Rolleicord III. The lens was a 3½-in. Schneider Xenar *f*/3.5. He exposed Plus-X film for 1/50 second at *f*/11.

PAGE 62 Philippe Halsman made this nude study in his studio with a Rolleiflex and 75-mm Tessar *f*/4.5 lens. Using three floodlights, Halsman made an exposure of 1/5 second at *f*/11 on Super-XX film.

PAGE 63 Jerry Yulsman obtained the silhouette effect of the reclining nude by using strong studio lighting on the back wall and one photoflood on the girl to bring out the soft modeling of the figure. The camera was a Rolleiflex with an *f*/3.5 Schneider Xenar lens. Super-XX film was exposed for one second at *f*/16.

PAGE 63 This bright, sunny nude was photographed by Peter Gowland on a California beach with a Rolleiflex. He used a 7.5-cm Zeiss Tessar lens with a light green filter. The shutter speed was 1/250 second, the aperture *f*/8, and the film Super-XX.

PAGE 64 Picked as the Canadian News Picture of the Year, this shot of Rocky Graziano knocking out Johnny Greco was taken by David Bier in Montreal, his home town. Using a Speed Graphic with a portable Ascor electronic flash unit at the camera and another portable Dormitzer (with booster) on a long extension for side lighting, Bier was able to catch this dramatic moment of the knockout.

PAGE 65 William J. Larcey took this unusual picture of the Cleveland Stadium at 1:30 in the afternoon, when a strange meteorological phenomenon almost plunged the city into darkness. The sky was overcast and took on a weird yellow hue. When the floodlights at the stadium were turned on, Larcey was able to make his picture, using a Speed Graphic with Zeiss Tessar *f*/4.5 lens. With his exposure meter reading zero, he made a 30-second exposure at *f*/16 on Super Panchro Press, Type B film. It was the only picture of the phenomenon able to be used in the newspapers, and was judged a prizewinner in the 1952 PHOTOGRAPHY contest.

PAGE 66 This shot of *Amas*, Japanese women pearl divers, was taken by Morihiro Satoh on the island of Hatsushima, in Japan. He used an Olympus camera with a 75-mm Zuiko lens and a light green filter. The exposure was for 1/50 second at *f*/8.

PAGE 67 A 5000-watt-second, bounced electronic flash caught this picture of a chorus call for Jerry Cooke. The camera was an Automatic Rolleiflex with 75-mm Xenar lens. Aperture was set at *f*/16 and exposure was for 1/100 second on Plus-X film.

PAGE 68 Amateur photographer Janet Konkle, who also finds time to be a mother, teacher, housewife and author, used two speedlights to stop the action of one of her cats named "Snowcloud." The camera was a Rolleiflex with 75-mm Tessar *f*/3.5 lens, and she used a lens opening of *f*/8 and Plus-X film.

PAGE 69 Louis Stettner photographed this little Spanish girl with a Leica 3F and 50-mm *f*/2 Summitar lens. He exposed Plus-X film for 1/200 second at an aperture setting of *f*/2.—▶

Circus—Koner

(*Continued from page* 53)

sures often are anywhere from half a stop to a full stop under what the manufacturer calls for. His pictures are tribute to the amazing exposure latitude built into Kodachrome emulsion.

Koner makes the following suggestions for amateurs who want to experiment with existing-light color photography at the circus or in any other bad-light environment.

1. Learn to hold your camera steady at slow shutter speeds.

2. Be willing to shoot several frames in order to get one good transparency.

3. Remember that the color temperature of the illumination encountered in existing-light work is rarely the same as that for which the film is balanced. Therefore, you shouldn't expect 100 percent accuracy of color rendition. However, off shades of color can be extremely beautiful.

4. In mixed lighting situations, decide which light predominates—daylight or tungsten—and chose your emulsion accordingly. (For a detailed discussion of this problem and a table of color-compensating filters, see *This Color Camera Went to Market*, PHOTOGRAPHY, September, 1952.)

5. Close-up meter readings, incident or reflected, are far more reliable than overall readings.

6. In color it's almost impossible to block up the highlights (as often happens in black-and-white existing-light work). Expose for the darkest areas that are important to your picture and let the highlights take care of themselves.

7. When in doubt about exact exposure shoot a few extra frames at a slower shutter speed or wider aperture, if this is possible.

8. Blues, browns, and greens are likely to give you the most trouble. When they're underexposed they really go dark. So if these colors are important to a picture, pump in as much exposure as you possibly can get.

9. Reds and yellows usually will turn out as some shade of red or yellow because the existing light indoors itself tends to be reddish or yellowish.

10. If the subject is a little off in color try to include a few objects whose colors are readily recognizable. This will help people to accept the picture as a whole.

11. Keep the background as simple as possible and thus give your subject a better chance of "jumping out" at the viewer.

12. Because of the long exposures, watch for peaks and lulls in motion.

But perhaps Koner's most important advice is, "Don't overplay the color." He explains:

"Too much color distracts from the picture, and the picture is what counts. I want my pictures to have a candid feeling, good design, and pleasantly appropriate colors. Don't let the colors run away from the subject matter. Sometimes we all shoot color for color's sake. This is an entirely different situation and calls for tripods, extra lights, correction filters, and so forth. In this case we sacrifice spontaneity for color accuracy."

To the photographer with some experience in black-and-white, color is a new and very different medium whose very limitations present an irresistible challenge. Says Koner, "I always was afraid of color—until I tried it."—*Bob Schwalberg.*—▶

Circus—Smith

(*Continued from page* 54)

the camera, but this would restrict camera mobility and defeat your purpose.

The most important matter of all is that of appropriate exposure. It is impractical to use the average light meter, for this would integrate into its reading large dark areas not of the subject proper, yet which would greatly influence the exposure indicated by the meter. Proper exposure, therefore, depends upon trial and error. The following analysis may serve as a tested guide:

Circus illumination may be broken down into three levels of intensity:

1) A relatively small subject lit by several overlapping spotlights.
2) General floodlight illumination with the subject in the center of the arena.
3) Relative shadow areas; for example, the periphery of the arena, while the general flood illumination is on.

The accompanying table lists recommended exposures at various shutter speeds and apertures with the emulsion-developer combinations given above. For example, if you are shooting a subject in the spotlight and wanted to use a shutter speed of 1/250 second, you would look down the Type 1 illumination column and find that *f*/2.8 is the appropriate aperture for that shutter speed. Of course, individual lighting conditions vary greatly. But these recommended exposures at least provide a starting point for your own experimentation.

A GUIDE TO EXISTING-LIGHT EXPOSURES AT THE CIRCUS

Aperture	Level of Illumination Type 1	Type 2	Type 3
f/2	1/500 sec	1/250 sec	1/125 sec
f/2.8	1/250	1/125	1/60
f/3.5	1/150	1/60	1/30
f/4.5	1/100	1/50	1/25
f/5.6	1/60	1/30	
f/8	1/30		

The above table lists shutter speed and aperture combinations for each of the three levels of illumination described in the text. The exposures are based on Plus-X developed for 14 minutes at 68 F. in Promicrol.

What about depth of field, and how much is necessary to insure sharp focus during rapid action? At first it would seem that one is apt to have focusing difficulties when using a wide aperture, particularly with a long lens. However, the distance between you and the subject—40 feet or so—will act in your favor. So will the fact that the direction of motion of circus performers is chiefly along the long axis of the arena. Provided that you are sitting at the side of the arena, most of the motion passes *across* your view, and not *at* you. So only rarely is there need to change focus in the middle of an act. Of course, this same characteristic means that the action will be somewhat harder to stop with the shutter. The problem of arresting action at varying angles to your lens axis is, of course, an involved one. (For detailed information on this subject, see *You Can Stop Action, Too,* POPULAR PHOTOGRAPHY, Sept., 1951.) Suffice to say that at distances of 40 feet or more, 1/60 second will stop most forms or circus motion across the camera's field. Your own experience in stopping motion will be far more useful than any points made here.

Where should you sit? If you are willing to pay for seats in the very first row you will be in the best position to get detailed shots of small groups. But if you can get within even 50 feet of the first row you still will be in an excellent location. Of course, if you'd rather capture spectacle than detail, the farther from the ring you are the better. In any case, try to get seats in the front row of the section you choose. This is advantageous for two reasons. First, the heads in front of you will be several feet lower than they would be otherwise. Second, and more important, there usually is a railing along the front of a section of seats: if you sit in the front row of the section, you can either put your feet on this railing and brace your arms on your legs, or you can lean forward and rest your elbows directly on the railing. This added stability is insurance against camera motion, the usual cause of unsharpness. Another point to remember is that you should not be *higher* than 40 feet above the level of the arena, unless you intend to concentrate on the aerialists.

One final suggestion. Be sure to take your wife or your girl along. A companion is perhaps the most useful accessory of all: she can keep your gadget bag on her lap, hand you fresh film, get you hot dogs, or hold your beer while you shoot.

Whether you want to surprise your friends with topnotch photos, or to record a pleasant evening, you will have fun if you take your camera to the circus.—*Warren W. Smith, M.D.*—▶

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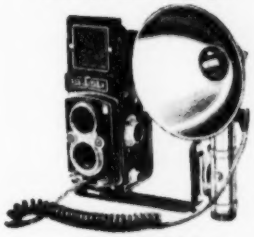

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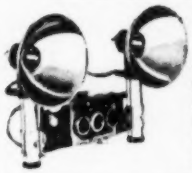

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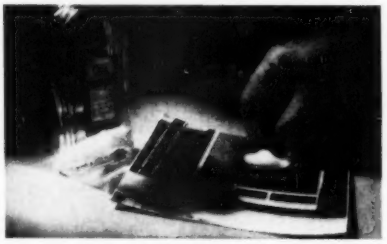
photo tips

Accurate Loading of Film Tank

To hold the film guide in place when loading a sheet-film tank inside a loading bag, try putting a six-inch ruler, or a pencil, underneath bottom of tank, and from its protruding ends stretch rubber bands over edges of loading guide, as shown. The guide can then be moved forward with accuracy after insertion of each film. When loading is completed, snap off the rubber bands and remove the loading guide as usual.—*Ralph F. Weir, St. Johnsville, N. Y.*

Cleaning Prints and Negatives

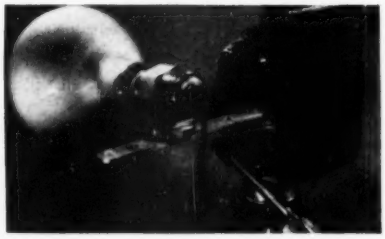


Disfiguring smudges and fingermarks on glossy prints can be removed quickly by rubbing gently with a small piece of cotton saturated in isopropyl ("rubbing") alcohol, without damage to the prints. This inexpensive liquid also supplies an efficient means of cleaning film negatives; apply it liberally, and note the surprising amount of dirt picked up by the cotton applicator. After such cleaning, the negative should be wiped off with a clean, dry cloth.—*K. B. Murray, Colon, Mich.*

Marking Darkroom Containers

Try using a soft glass-marking pencil in a bright shade for inscribing helpful data on glass containers in the darkroom. A contrasting color such as brilliant yellow will stand out well against the deep brown of bottles generally used in the darkroom. The pencil marks are resistant to all of the usual photographic solutions, and can be removed easily, when desired, with a piece of absorbent cotton wet with alcohol.—*Russ Whitaker, Altadena, Calif.*

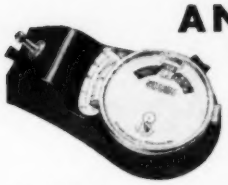
Hold Flood Lamps in Flash Bracket



When using one or two floodlamps at the camera for fill-in lighting, mounting them on flashgun brackets will save time and eliminate having to move lamp stands around before shooting each set-up. The average flashgun bracket assembly is just the right size for mounting the socket of a reflector floodlamp at side of camera, as shown in the accompanying illustration. This sort of set-up serves excellently for use with motion picture cameras, also.—*Kay Bronaldo, Sturgis, Mich.*

Drying Roll Film

If you find yourself without enough film clips when hanging roll film to dry, the shower curtain hooks in your bathroom will provide a ready substitute, and can be used right on the shower curtain rod. Make a hole in the end of the film (where you would ordinarily attach a clip) for the hook to go through, then hang film on hook to dry over the bathtub or shower stall, where dripping cannot cause any damage.—*Virginia Hanson, Venice, Calif.*



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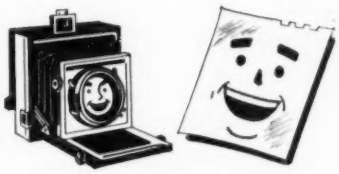

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Candid Shots

(*Continued from page* 32)

a picture of a four-car crash on Thomas St. last night was given the choice of surrendering the film for police censorship or going to jail." The photographer, duly intimidated, turned over his film. According to the dispatch, a police lieutenant said, "We have orders to take pictures snapped by anybody other than accredited news photographers. . . . The order includes pictures taken by insurance adjustors." Following the policy to its source, the reporter found that it stemmed from "effective use of free-lance pictures by defense lawyers in court trials." If this is the general attitude toward justice in Memphis, a defense lawyer there must have a difficult life indeed!

Mossadegh-in-A-Minute

There seems to be no limit to the usefulness of Polaroid's picture-a-minute camera. Now it's dabbling in international diplomacy. The Polaroid people tell us of an encounter of movie-maker Kenneth Richter with Iranian premier Mohammed Mossadegh, as the premier was recuperating from one of his political "fainting attacks." Mossadegh was reluctant to permit Richter to set up his elaborate equipment, but Richter whipped out his Polaroid camera, made a few shots of the ailing diplomat, and handed him the results. This "miracle" broke the ice, and Richter got the movies he wanted. Here's one of the pictures that turned the trick. Richter has had similarly gratifying results all over the world with this technique. He makes industrial movies, and finds that many a door is opened to him with the magic phrase, "Wait a minute, and I'll give you the picture!"

Your New Camera and Equipment

Every year PHOTOGRAPHY brings its readers a comprehensive directory of photographic equipment. This year's Directory, completely revised and brought up to the minute, is part of this issue. It will tell you all you need to know about what's new and what's good in cameras and accessories. And if you're a potential camera buyer, a bit swamped by the fine print in the Directory's many pages of new cameras, prepare yourself by reading first our lead-off article, *What Camera for You?* It's an honest, well-organized feature designed to answer your most important question: "What kind of camera best fits *my* needs?"—

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stereo today

by Robert L. McIntyre

The Bodiless Cowboy

What's in a name? There's a West Coast photographer whose signature looks stereographic—and sure enough, he's a stereo fan. He is Thomas C. Thomas, whose "bodiless cowboy" is reproduced here. It was accepted in an early Lighthouse competition and started him off on a series of experiments that still continues. The cowboy shot is a relatively simple double exposure.

The top portion of the picture was taken first, with the bottom halves of the lenses covered with black paper so nothing below the top rail of the fence would register on the film. Then the cowboy moved out of the picture area and the top halves of the lenses were covered. A second exposure at this point took the bottom portion of the picture, showing everything below the fence rail.

Showings of the trick slides stirred up so much interest that Thomas decided to market them. A set of 12 now is available under his "Stereolusions" trademark. It costs $9, and a sample slide of the cowboy is $1. You can see the set at some camera stores and you can get a descriptive folder by writing Thomas at 4163 Radford Ave., Studio City, Calif.

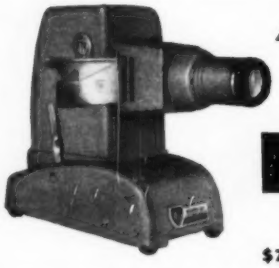
Mounts for Stereo-Tach

Stereo pictures taken on 35mm film with the Stereo-Tach beam-splitter can be mounted for viewing or projection along with slides in conventional mounts. A cardboard Quik-Mount for this purpose has been announced by Armme.

It holds the two transparencies, which are 4 perforations wide, at the same separation as Quik-Mounts for standard 5-perforation pictures. This is important for amateurs who are thinking of trying stereo with the relatively inexpensive Stereo-Tach outfit (less than $25 for beam-splitter and viewer). It means they can mount their best slides in standard mounts to participate in stereo club activities, and can change over the pictures they want to save if they decide to get regular stereo cameras later on. You can get a folder that explains the Stereo-Tach system from Advertising Displays, Inc., Covington, Ky.

Chasing Screen "Ghosts"

If you have tried to project any number of stereo slides taken on Ansco Color film, no doubt you have seen your share of screen "ghosts." They are secondary images that appear when each eye sees a weak image of the picture intended for



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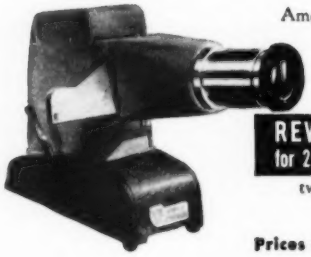

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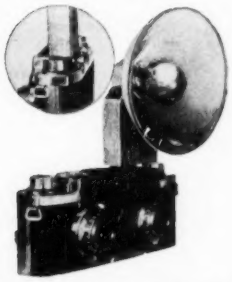

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the other eye, as well as the strong image that it should. One cause is by a slight change in polarization of the light as it passes through the film base.

The effect is especially annoying in night scenes and other types of pictures in which small, bright areas appear against dark backgrounds. If you happen to have a few slides like this, there's a trick you can use to salvage them for projection showing. The answer is to sandwich a piece of clear Ansco Color film into the mount with each transparency, placing it with the sprocket holes at the sides instead of at top and bottom.

This places the axis of the slight polarization in the clear film at right angles to that of the transparency. They cancel each other out, and the ghost effect is eliminated or greatly reduced.

What about Kodachrome ghosts? You see them from time to time, but tests fail to reveal any significant pattern. Masking with clear Kodachrome in the manner indicated for Ansco Color does little good, although it is only fair to point out that Kodachrome ghosts always are weaker to begin with.

Other factors that can influence ghosting include screen surface, condition and orientation of filters, and the angle at which the viewer holds his head.

Stereo "Commercials"

A new type of stereo mount for commercial use, of normal width but over five inches high, has been designed by Dave Ettelson of Chicago. It fits any standard viewer, projecting at the top. On its face is a 3½ x 4 reproduction of the slide. Ettelson got the idea for the oversize mount after watching salesmen work with standard slides and occasionally become confused when the slides got out of order and they didn't know which one the customer was viewing. The large reproductions make it easy for the salesman to select any slide, to identify the one in the viewer, and to give the "commercial" with it.

An interesting by-product is the use made of the back of the mount, which the salesman can see while the customer sits opposite him and looks at the picture. It contains the sales message, listing, point by point, the things the salesman should bring out. The mounts were designed for Hotpoint's all-electric kitchen promotion by Ettelson's firm, which specializes in sales tools making use of photography.

Another type of slide which tells a story is produced by Stori-Views of St. Louis. Each mount holds a pair of 16mm single frames with descriptive matter printed above them. The stereo pictures are similar to those used in the Sawyer View-Master, but are in single mounts instead of the familiar cardboard disk. A Junior Kit containing a viewer and 12 slides costs $2.50, and sets of 12 slides are $1 each.—

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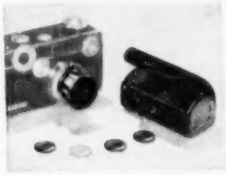

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Four Series V Dura-Klad-rimmed Filters: Y-2 (K-2) med. yellow; R-2 (#25-A) med. red; Chrome-Haze Skylight (#1-A) and ChromA Conversion (#85). Mini-shade, dual-retainer and 24mm adapter . . . with lifetime Karry-Kit . . . . . complete $13.50

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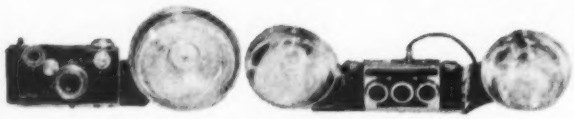

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Calendar of photographic exhibitions

*Conducted according to the recommended practices of the Photographic Society of America.

15th Buffalo International Exhibition of Nature Photography*, Science Museum Photographic Club, Buffalo, New York.

Closes April 15, 1953.
Entry fee $1, four prints and/or slides allowed.
On exhibit at Buffalo Museum of Science, May 5 to 24, 1953.
For information and entry blanks, write Harry R. Reich, 286 Schenck St., North Tonawanda, N. Y.

St. Louis International Exhibition of Photography 1953, The Photographic Society of St. Louis, St. Louis, Mo.

Closes April 15, 1953.
Entry fee for prints, $2; for slides, $1; for stereo, $1.
On exhibit at Stix Baer & Fuller, Founders Hall Gallery, April 29 to May 13, 1953.
For information and entry blanks, write Jane Shaffer, 5466 Clemens Ave., St. Louis 12, Mo.

12th Annual Cincinnati International Exhibition of Photography*, The Associated Camera Clubs of Cincinnati, Cincinnati, Ohio.

Closes April 18, 1953.
Entry fee $1, four prints and/or slides allowed.
On exhibit at The Cincinnati Art Museum, Cincinnati, May 6 to 20, 1953.
For information and entry blanks, write Ray Riedinger, 3875 Kirkup Ave., Cincinnati 13, Ohio.

10th Syracuse International Salon of Photography*, The Syracuse Camera Club, Syracuse, New York.

Closes April 20, 1953.
Entry fee $1, four prints and/or slides allowed.
On exhibit at Syracuse Museum of Fine Arts, May 6, 1953.
For information and entry blanks, write Allen Ruch, 1421 Butternut St., Syracuse, N. Y.

1953 Rockford International Salon*, Rockford Lens and Shutter Club, Rockford, Ill.

Closes April 23, 1953.
Entry fee $1, number of prints on request.
On exhibit at Rockford Art Association, May 1 to 30, 1953.
For information and entry blanks, write the Rockford Art Association, 737 No. Main St., Rockford, Ill.

1953 Bergen County International Exhibition of Photography*, The Bergen County Camera Club's Association, Hackensack, N. J.

Closes April 25, 1953.
Entry fee $1, four prints and/or slides allowed.
On exhibit at Art Galleries of the Young Men's Hebrew Association of Bergen County, Hackensack, from May 10 to 24, 1953.
For information and entry blanks, write Bergen County Exhibition, c/o Y.M.H.A., 211 Essex St., Hackensack, N. J.

1st International Color Slide Exhibition*, Fine Arts Camera Club, Evansville, Indiana.

Closes May 2, 1953.
Entry fee $1, four slides allowed.
On exhibit at Evansville Community Center, May 17, to 24, 1953.
For information and entry blanks write Presley H. Hill, Y.M.C.A., Evansville, Indiana.

2nd Exhibit of Tree Photography, New York State Museum, Albany, N. Y.

Closes May 10, 1953.
No entry fee, four prints allowed.
On exhibit at Museum June 1 to 30, 1953.

For information and entry blanks, write W. J. Schoonmaker, New York State Museum, Albany 1, N. Y.

Combined Societies Travelling Exhibition, Combined Societies Association, Bristol, Hereford and Wolverhampton, England.

Closes May 12, 1953.
No entry fee, 4 prints allowed.
For information and entry blanks, write W. R. L. Hosier, Swaylands, Amos Lane, Wednesfield, Staffs, England.

new books

THE SILENT WORLD by Captain J. Y. Cousteau. Published by Harper & Brothers, Publishers, New York, N. Y. Cloth bound, 6 x 9½, illustrated in color and black-and-white, 266 pages, $4.

The fantastic, true adventures of France's Captain Cousteau and his fellow deep-sea divers makes absorbing reading for armchair adventurers. Few men know the twilight world beneath the ocean's surface more intimately than Cousteau, and few have photographed it or written about it more vividly.

Cousteau is a "skin-diver" (frogman, in U.S. Navy vernacular) who relies only on flippers and a light-weight breathing apparatus called an "aqualung." With this frail equipment he was able to reach a depth of 300 feet where the pressure is ten times greater than at the surface!

Forty-eight pages of black-and-white illustrations and 16 of color (reproduced from Ektachromes) give a close-up view of submarine life. Although the quality of some of the color reproductions is rather poor, the picture content is exciting enough. Where but in Cousteau's book could you hope to see a dancing octopus, sunken ships, undersea canyons, moray eels, and a shocking face-to-face portrait of a monster shark?

Most of the photographs are stills from movie footage. Cousteau used a movie camera encased in a pressurized chamber. The color was shot with a Rolleiflex, also in a water-proof case, and an underwater flashbulb rig.

Movie photographers may be encouraged to take up skin diving themselves when they hear how easy it is to operate a hand-held camera underwater. Writes Cousteau, "The embrace of water allows shots that in a studio require complex booms, turrets, and carts. . . . The water smooths things out for superb traveling shots toward an object, steady panoramic shots, and involved three-dimensional movements that would take a day to rehearse on a professional boom."

A HANDBOOK OF MINIATURE PHOTOGRAPHY by Henry G. Russell. Published by Nicholas Kaye, London, England. Distributed in the United States by Rayelle Publications, Philadelphia, Pa. Cloth bound, 5½ x 8¾, illustrated, 284 pages, $5.75.

In attempting to cover 35-mm and 2¼x 2¼ camera technique at one blow, the author of this British book has defeated his own purpose: few of the chapters or illustrations indicate that there is any advantage in using the smaller cameras, or conversely, that for certain jobs a larger size affords greater advantage. Its usefulness to an American audience is further limited by the fact that most of the formulas and much of the equipment are unknown here.—

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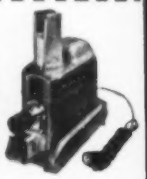

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trade notes and news

All data and descriptions ascribed to products listed herein are those claimed by the manufacturers and distributors, and listings are not to be construed as endorsements by PHOTOGRAPHY.

NEW 8-mm MOVIE CAMERA, the "Two Twenty," is announced by Bell & Howell, 7100 McCormick Road, Chicago 45, Ill. A new device called the "sundial," when turned to any one of four outdoor light conditions shown, sets the diaphragm at the proper opening for either color or black-and-white. The 10-mm f/2.5 coated pre-focused lens covers 25% more area than the standard used on 8-mm cameras. Three-way starting button can be set for normal operation (16 frames a second),

continuous run, or single frame operation. Frame counter is automatic, requires no setting; full wind of the hand crank gives a 10-foot film run; uses spool film; closing camera door automatically closes film gate; housing is of die-cast aluminum, gears are hobbed (cut); motor is governor-controlled with automatic stop before spring is fully unwound. Unit weighs 35 ounces. Price is $49.95 including F.E.T. Supplementary telephoto attachment (available as an accessory at $22.95) magnifies subject 2½ times. Cowhide sheath case costs $4.95. Get full details from dealers or from Bell & Howell.

TWO NEW FLASHBULBS, the 25 C (amber) and FP-26B (blue) are being marketed by the photolamp division of Sylvania Electric Products Inc., 1740 Broadway, New York 19, N. Y. The 25 C (color corrected for indoor color film) has a color temperature of 3400 K, a light output of 14,000 lumen seconds, emits 875,000 lumens, and 20-millisecond delay. Price is 17 cents. The FP-26B (for focal plane shutters covering up to and including 2¼x3¼ film) has a color temperature of 6000 K for outdoor color film, light output of 7,500 lumen seconds, and 325,000 peak lumens (average plateau intensity). It lists at 19 cents. For details, write to Sylvania.

KODAK SONOTRACK COATING, the magnetic sound track coating service offered by Eastman Kodak Company, Rochester 4, N. Y., is now available for double-perforated 16-mm film. The coating is applied to the base side of film in same position as sound tracks on single-perforated film. Orders will be accepted only through Kodak dealers. Price of coating for either single or double-perforated film is 2½ cents a foot with minimum charge of $10 per order.

A UNIQUE VIEWFINDER for the 35-mm Exakta cameras, the Ihagee Magnear lensviewfinder, is being marketed by Exakta Camera Co., 46 W. 29 St., New York 1, N. Y. One end of the Magnear has a groundglass with a clear center spot and cross—for scientific work; the other has a bayonet mount that accepts any lens with an Exakta mount. Thus use of an additional lens makes it possible to inspect the groundglass image critically and assure optimum sharpness since it provides a

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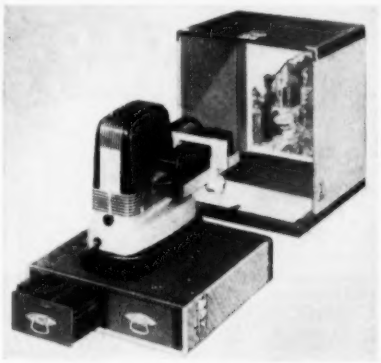
much-larger-than-normal image. A standard 50-mm lens, for instance, provides a 5x magnification. When used for photomicrography, no additional lens is necessary; regular camera lens is removed and inserted in Magnear while camera body is attached to microscope with an adapter. For other types of photography, an additional lens is necessary, but it can be any lens (with Exakta mount) that the photographer owns. List price is $25.50, less lens. Get additional details from your dealer, or direct from Exakta.

IMPROVED VERSION of the Mighty Midget Speedlight (the No. II) is announced by Speedlight Center, 128 W. 32 St., New York 1, N. Y. Improvements include: approval by Underwriters' Laboratories; a bounce-light bracket that shifts beam from head-on flash to bounce position; a 3-way power-source system gives extreme flexibility—basic unit, (list, $69.95) works off house current, dry battery pack (list, $24.95) gives it rapid-fire utility, wet-battery pack (list, $39.95) gives longer battery life with slightly longer build-up period; 5-year free service guarantee on basic unit; flash tube guaranteed minimum life of 25,000 flashes. For complete information on these items and accessories offered, write direct to Speedlight Center.

NEW BAJA ROYAL CASES for still projectors are offered by Barnett & Jaffee, 6100-10 N. 21 St., Philadelphia 38, Pa. The RC-245 comes with two sequence unlike drawers for 2x2 slides in the base; the RC-245X (illustrated) is equipped with two unit drawers for 4 TDC Selectrays. Both models will accommodate TDC Models D, or Mainliner or Streamliner projectors with



semimatic or automatic changer attached. Provision is made for mounting projector permanently without removing lens; miniature screen is placed in lid. List price of each is $17.60. The model RXD-23, priced at $16, will accommodate Viewlex models 22, 33, 44, Golde Manumatic 300, or SVE Skyliner series A, B, C, and D, and will accept projector with Airequipt or Golde changer attached. Compartment in base for storage of 8 Airequipt magazines or 4 Golde index files. For further details see your dealer or write direct to Barnett & Jaffee.

NEWS NOTES: The new British finegrain developer, Promicrol, is being marketed in the United States by George Murphy, Inc., 57 E. 9 St., New York 3, N. Y., sole American agents. Prices are $1.10 for the 20-oz. package (makes 600 cc) and $2 for 32-oz. (makes 950 cc). George Murphy, Inc., incidentally, is celebrating the 75th anniversary of its founding, Mr. Murphy having started the business April 1, 1878 at 10 Bond Street in New York City and moving to their present location three years later.

Publication of the 13th edition of the *Leica Manual*, the definitive handbook of 35-mm still photography, is announced by E. Leitz, Inc., 304 Hudson St., New York 13, N. Y. It is a complete revision of the 12th edition, published in August 1951, contains a number of new pictures to illustrate various photographic techniques, and includes discussions of all Leica accessories developed during the past 18 months. Price is $5 a copy through Leica distributors and dealers.

A reduction of 13.7 per cent in list price of the Argus C3 Telephoto lens is announced by Argus Cameras, Inc., 405 S. Fourth St., Ann Arbor, Mich.—

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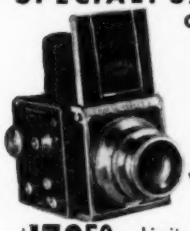

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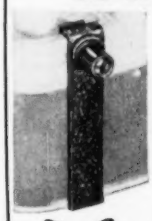

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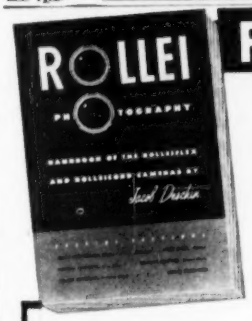

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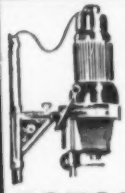

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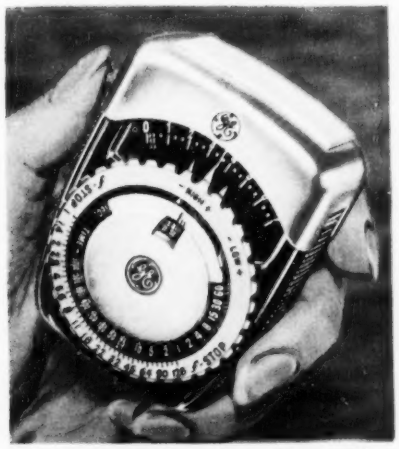

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